

# MANUFACTURERS RECORD

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BALTIMORE, APRIL 3, 1913.

## SOME TELEGRAMS AND THEIR EFFECT.

Miami, Fla., March 1.  
Manufacturers Record, Baltimore, Md.:  
We have one million yards of first-class  
sand filling to do within the next four  
months. I wish to have you give me by  
wire the names of large dredging companies  
in this vicinity who are able to figure on  
this job. The plan calls for reclaiming  
about two miles of water front with twelve  
to fifteen feet of clear sand available.

CARL G. FISHER, President,  
Prestolite Co., Indianapolis, Ind.

Baltimore, 3-3-13.

Carl G. Fisher, Miami, Fla.:

Following dredging contractors working in  
your vicinity: G. C. Livingston & Co.,  
Starke, Fla.; National Construction Co., Bir-  
mingham, Ala.; Collins & McKenzie, Fort  
Pierce, Fla.; Miami Engineering & Construc-  
tion Co., Miami, Fla.; Furst-Clark Dredging  
Co., Baltimore, Md.

MANUFACTURERS RECORD.

Baltimore, Md., March 18, 1913.

Carl G. Fisher, President,  
Prestolite Co., Miami, Fla.:

We understand your filling work awarded.  
Please wire name and address contractor,  
approximate quantity, amount contract. Ap-  
preciate quick reply and further particulars  
mail.

MANUFACTURERS RECORD.

Miami, Fla., March 18, 1913.

Manufacturers Record, Baltimore, Md.:  
Contract awarded Furst-Clark Co.; three  
million two hundred thousand cubic yards.  
C. G. FISHER.

Here is a contract amounting, we  
understand, to about \$300,000, which  
was secured by the Furst-Clark Com-  
pany of Baltimore as a direct result of  
the information wired to Mr. Fisher.  
This is one of hundreds of similar  
cases constantly coming to our atten-

tion of the work of the MANUFACTURERS  
RECORD in bringing business interests  
into communication to the advantage of  
the man who wants to buy, whether it  
be the work of a contractor, as in this  
case, or engineering skill, or machinery  
or equipment, and of the man who has  
these things for sale.

### TWO DEVASTATED STATES.

Loss of life by flood and fire in Indi-  
ana and Ohio, which has appealed to  
the practical philanthropic impulses of  
the whole country, and the sufferings  
of several hundred thousand surviving  
victims of the unprecedented and ap-  
palling disaster can be measured only  
by human sympathy. Many months  
must pass before the country will be  
able to realize the full significance of  
the visitation from the material stand-

while the value of their farm crops,  
\$434,547,793, was about one-thirteenth  
of the country's value in 1909. Last  
year the two States raised 373,774,000  
bushels of corn, or nearly 12 per cent.  
of the total corn crop, Ohio ranking  
sixth and Indiana fourth in corn-grow-  
ing among the States; 173,079,000 bush-  
els of oats, or more than 12 per cent.  
of the total crop, Ohio ranking fifth and  
Indiana seventh in production; 6,608,-  
000 tons of hay, or nearly one-eleventh  
of the country's crop, and 94,264,000  
pounds of tobacco, or nearly one-tenth  
of the total crop.

The capital invested in factories, not  
including neighborhood industries and  
hand trades, in 1909 in the United  
States was \$18,428,270,000, and the  
value of their products was \$20,672,-  
052,000. Ohio and Indiana had \$1,800,-

	Ohio.	Indiana.	United States.
Land area, square miles.....	40,740	36,045	2,973,890
Population†.....	4,767,121	2,700,876	91,972,266
Population per square mile.....	117.0	74.9	30.9
Farm lands:†			
Total acreage.....	24,105,708	21,290,823	878,798,325
Improved acreage.....	19,227,969	16,931,252	478,451,750
Farm property, value†.....	\$1,902,694,589	\$1,809,135,238	\$40,991,449,090
Farm operators†.....	272,045	215,485	6,361,502
Domestic animals, value†.....	\$187,523,324	\$165,867,178	\$4,760,000,093
Poultry, value†.....	\$9,532,672	\$7,762,015	\$154,663,220
Farm crops, value*.....	\$230,337,981	\$204,209,812	\$5,487,161,223
Farm crops, quantities:‡			
Corn, bushels.....	174,410,000	199,364,000	3,124,746,000
Wheat, bushels.....	9,760,000	10,080,000	730,267,000
Potatoes, bushels.....	20,832,000	9,918,000	420,647,000
Oats, bushels.....	93,280,000	79,799,000	1,418,337,000
Hay, tons.....	4,026,000	2,582,000	72,691,000
Tobacco, pounds.....	79,304,000	14,960,000	962,855,000
Factories:*			
Capital.....	\$1,300,733,000	\$508,717,000	\$18,428,270,000
Products.....	\$1,437,936,000	\$579,075,000	\$20,672,052,000
Wage earners.....	446,934	186,984	6,615,046
Mineral industries:			
Capital*.....	\$161,324,529	\$59,764,947	\$3,380,525,841
Products‡.....	\$97,090,284	\$37,430,187	\$1,677,411,459
Wage earners*.....	57,185	27,559	1,065,283
Forest area, acres.....	4,800,000	4,000,000	544,400,000
Lumber cut, feet.....	427,161,000	360,613,000	37,003,207,000

\*Figures of 1909. †Figures of 1910. ‡Figures of 1911. §Figures of 1912.

point, but an inkling may be had in con-  
sideration of a few facts bearing upon  
the importance of the two States in the  
productive activities of the United  
States. In the accompanying table the  
leading lines of such activities are  
sketched statistically in comparison  
with the same lines in the whole  
country.

Both States are quite thickly settled,  
Ohio ranking eighth and Indiana  
eleventh among the States as to the  
average population per square mile,  
while the combined populations have an  
average density of 97.2, or more than  
three times that of the whole country.

Of 878,798,325 acres in farms in the  
whole country only 478,451,750, or  
something more than 54 per cent., are  
improved, while 21,290,823 acres, or 88  
per cent. of the total of 24,105,708 acres  
in Ohio, and 16,931,252 acres, or 88 per  
cent. of the total of 19,227,969 acres of  
farm lands in Indiana are improved.  
The farm property in the two States,  
including lands, buildings, implements,  
machinery and live stock, has an aggre-  
gate value of \$3,711,829,827, or 9 per  
cent. of the \$40,991,449,090 total value  
of all farm property in the country,

450,000, or nearly one-tenth of the total  
factory capital, and manufactured to  
the value of \$2,037,011,000, or nearly  
one-tenth of the total value of factory  
products.

The value of mineral products in  
1911 in the two States, \$134,520,470,  
was nearly one-twelfth of the coun-  
try's aggregate. The leading mineral  
values in Ohio were \$31,816,123 for  
coal, \$9,479,542 for petroleum, \$9,367,-  
347 for natural gas, and \$2,104,776 for  
sand and gravel, and in Indiana \$15,-  
326,808 for coal, \$1,238,835 for petro-  
leum, \$1,192,418 for natural gas and  
\$1,133,829 for sand and gravel. Ohio  
ranked fourth in the quantity of coal  
produced and fifth in the quantity of  
natural gas produced.

In these productive industries nearly  
1,500,000 persons find occupation, the  
figures of three or more years ago being  
487,530 farm operators, meaning own-  
ers, managers and tenants; 633,918  
wage earners in factories and 84,744  
wage earners in the mineral industries,  
a total of 1,206,192, or about one-  
twelfth of the country's total. It is  
easily understood that the devastation  
that has been wrought and the inter-

ruption of many activities must seri-  
ously affect immediately this large  
number of workers and the much larger  
number of their dependents. Not only  
will the operations in the two States  
contributing to the aggregate annual  
wealth production of the country be  
somewhat demoralized, affecting rail-  
road traffic, trade and business gen-  
erally, but there will be need of sus-  
tained contributions for the relief of  
men and women who have lost all their  
possessions.

Meanwhile, it must be borne in mind  
that the measures for relief are neces-  
sarily only temporary. The indications  
of the great natural resources of the  
two States most affected by the floods,  
and the manifestations of the vigorous  
utilization of the resources by the peo-  
ple of that section revealed in the sta-  
tistics, are a guarantee that the people  
of the States will rapidly recover from  
the disaster, will repair the damages  
and better the material conditions, so  
that they will be equipped to become  
even greater factors than they have  
been in national prosperity.

## SOUTHERN RAILROADS PROMPT FOR THE RELIEF OF OHIO VALLEY SUFFERERS.

One of the striking and gratifying  
manifestations consequent upon the ter-  
rible visitation in the Ohio Valley was  
the readiness of railroad managements  
in the South to put all their possible  
energies into co-operation for the relief  
of the sufferers. As soon as President  
Wilson's call for help was issued, the  
MANUFACTURERS RECORD wired to a  
large number of Southern newspapers  
suggesting that the South, which has  
been so abundantly blessed, ought to  
give immediate response, and to a num-  
ber of Southern railroads, asking that  
within the limitations of the interstate  
commerce laws they might offer to  
carry free all contributions from the  
South for the sufferers. In quick re-  
sponse came the following messages by  
telegraph or mail:

President George W. Stevens of the  
Chesapeake & Ohio Railway, from Clif-  
ton Forge, Va.:

"Chesapeake & Ohio's Hocking Valley  
lines are ready, if lawful, to carry all  
contributions for stricken sections free  
of cost."

President L. E. Johnson of the Nor-  
folk & Western Railway, from Roanoke,  
Virginia:

"Of course the Norfolk & Western  
will transport supplies free to the suf-  
ferers of Ohio. I had already arranged  
for this before receiving your telegram,  
and am in communication with the  
Governor of Ohio asking for informa-  
tion as to whom and where the sup-  
plies shall be billed."

President C. H. Hix of the Norfolk  
Southern Railroad, from Norfolk, Va.:

"Norfolk Southern will co-operate  
with other lines in its territory fully,  
as far as it can legally do so, in render-

ing relief to the stricken district of our country."

President W. J. Harahan of the Seaboard Air Line Co., from New York:

"Regarding call to help in the West, we shall be very glad indeed to do anything we can legally and consistently do to co-operate along lines you suggest. We had already taken steps in this direction."

President T. M. Emerson of the Atlantic Coast Line, from Jacksonville, Florida:

"Referring to your message which reaches me here, we have issued instructions to carry contributions for relief of the flood sufferers free of cost over our line."

Lyman Delano, assistant to the president, Atlantic Coast Line, from Wilmington, N. C.:

"At request of Mr. Emerson have wired our general superintendent as follows: 'Please have superintendents under your jurisdiction notify all agents by wire that this company will handle all contributions for flood sufferers in the Middle West when the same is consigned to the Governor or to State, county or municipal authorities, or to charitable institutions. Matter is also being handled with connections as to movement beyond our lines.' If you have any further suggestions in regard to our co-operation in this matter, shall be glad to have the benefit of same."

J. M. Culp, vice-president, Southern Railway Co., from Washington, D. C.:

"Thus far, we have only been requested to transport free of charge some physicians from Atlanta, Ga., to Cincinnati, Ohio, which the Southern Railway and the Cincinnati, New Orleans & Texas Pacific Railway readily agreed to do. We have not so far been asked to carry, free of charge, any supplies, etc., but the Southern Railway Co. is entirely ready and willing to transport, over the lines of its system, all supplies, clothing, food and medicine which may be donated or furnished without charge by the people in our territory to the sections visited by the disaster for the relief of the destitute which we may be requested to so transport."

W. A. Winburn, vice-president, Central of Georgia Railway Co., from Macon, Ga.:

"I observe from the local newspapers that the various communities in this section of the South have already responded promptly to the call for aid, and I feel sure that these contributions will grow rapidly to generous proportions. So far, no disposition has been shown to contribute anything but money, and I doubt if there will be any important movement of supplies that the common carriers would be called upon to handle. I see nothing in the law to prevent us from dead-heading such shipments, however, and we will be disposed to do so if the opportunity offers. I hesitate, though, to announce our disposition to do this until there is some evidence that such an offer will be of practical aid to the sufferers."

The South is marketing at good prices a cotton crop of more than 14,000,000 bales. It harvested last year more than 1,400,000,000 bushels of grain and marketed 131,000,000 tons of coal, 5,700,000 tons of iron ore, 3,400,000 tons of phosphate rock, 85,000,000 barrels of petroleum, 790,000 tons of sulphur and \$100,000,000 worth of early vegetables and fruits. Its income annually from its production in agriculture, mining and manufacturing is close upon \$8,000,000,000 a year, marking an era

of prosperity greater than it has ever before enjoyed. Out of that abundance it has shown itself in the present emergency ready to share with sufferers in other parts of the country, reports from all parts of the South telling of movements in cities and towns for raising relief funds, and the alertness and promptness of the railroad managements in tendering facilities of transportation will be appreciated everywhere.

#### FOR SOUTHERN RIVERS AND HARBORS.

Of \$706,750,849 appropriated for the improvement of rivers and harbors in the United States up to date, \$286,771,536, or 40.5 per cent., have been appropriated for rivers and harbors in the South. At the last session of Congress \$41,073,064 were appropriated, and of that sum \$21,526,911, or 52.4 per cent., were appropriated for the South. The appropriations by States are shown in the following table:

Projects Within State Boundaries.	
States.	Amounts.
Alabama.....	\$1,733,500
Arkansas.....	70,000
District of Columbia.....	105,000
Florida.....	1,228,800
Georgia.....	639,720
Louisiana.....	585,700
Maryland.....	392,990
Mississippi.....	433,000
Missouri.....	2,025,000
North Carolina.....	906,785
South Carolina.....	266,616
Tennessee.....	35,000
Texas.....	2,680,000
Virginia.....	397,700
Total.....	\$11,499,811
For Interstate Projects.	
Mississippi River.....	\$7,000,000
Nanticoke River, Delaware and Maryland.....	3,600
Waccamaw River, North Carolina and South Carolina.....	30,000
Chattahoochee River, Georgia and Alabama.....	80,000
Coosa River, Georgia and Alabama.....	126,000
Choctawhatchee River, Florida and Alabama.....	9,000
Escambia and Conecuh Rivers, Florida and Alabama.....	8,000
Tombigbee River, Alabama and Mississippi.....	27,500
Red River, Louisiana, Arkansas, Texas and Oklahoma.....	117,000
Cypress Bayou, Texas and Louisiana.....	500
Ouachita River, Arkansas and Louisiana.....	202,500
Arkansas River, Arkansas and Oklahoma.....	48,000
Black and Current Rivers, Arkansas and Missouri.....	25,000
Tennessee River, Tennessee, Alabama and Kentucky.....	1,105,000
Inland waterways—	
Norfolk-Beaufort Inlet.....	800,000
New River-Beaufort.....	5,000
Charleston-Alligator Creek.....	25,000
Savannah-Fernandina.....	100,000
St. Johns-Cumberland Sound.....	50,000
Mermentau-Sabine.....	190,000
Texas.....	50,000
Removing water hyacinths.....	15,000
Total.....	\$10,027,100
Grand total South.....	\$21,526,911
United States.....	\$41,073,064

The total appropriations at the recent sessions of Congress for Southern river and harbor improvements wholly within separate States amounted to \$11,499,811, Texas leading with \$2,680,000, Missouri being second with \$2,025,000, Alabama third with \$1,733,500, Florida fourth with \$1,228,800, and North Carolina fifth with \$906,785. The largest items in Texas were \$600,000 for improving Port Aransas, \$500,000 for the channel from Galveston harbor to Texas City, \$400,000 each for Sabine Pass and Port Arthur Canal, and for the Brazos River, including the construction of locks and dams; \$270,000 for the Trinity River, including the

construction of locks and dams, and \$200,000 for two dredging plants for the Houston Ship Channel, provided \$200,000 more be furnished by the Harris County Ship Channel Navigation District. Nearly the whole amount for Missouri was for work in the Missouri River between Kansas City and its mouth, looking to a permanent six-foot channel and not including \$325,000 for the improvement of the river above Kansas City.

In Alabama \$1,338,500 are for the improvement of the Black Warrior, Warrior and Tombigbee rivers within Alabama, embracing the improvement from Mobile to Sanders Shoals on the Mulberry Fork and the Nichols Shoals on the Locust Fork of the Black Warrior River by the construction of locks and dams.

Florida's total was made up of 21 projects, the largest being \$611,800 for the St. Johns River, \$200,000 for Hillsboro Bay, \$137,000 for the Appalachicola River and \$100,000 for St. Lucie Inlet. The \$500,000 appropriation for continuing the work on the great harbor of refuge at Cape Lookout, N. C., carries with it a provision looking to additional contract aggregating \$600,000. For completing the improvement of the Cape Fear River at and below Wilmington \$352,940 were appropriated.

Appropriations greater than \$100,000 in other Southern States were \$275,000 for Mobile harbor and bar in Alabama; \$345,000 for completing the 26-foot channel to the sea in Savannah harbor, and \$188,470 for the improvement of the Savannah River, with the provision that the \$60,000 to be expended at Augusta must be matched by a like sum contributed by the city of Augusta, in Georgia; \$500,000 for the Southwest Pass of the Mississippi River in Louisiana, \$305,250 for widening the channel of approach of Baltimore harbor at York Spit in the Chesapeake Bay, in Maryland; \$120,000 for the Big Sunflower River, and \$110,000 for Pascagoula harbor, in Mississippi; \$120,000 for Winyah Bay, in South Carolina, and \$195,000 for obtaining a depth of 25 feet of water from the navy-yard to the sea, and for other improvements in Norfolk harbor.

For the inland waterways along the coast between the Chesapeake Bay and the Rio Grande River, which are ultimately to become a part of the Great Inland route extending to Massachusetts Bay, \$1,235,000 were appropriated in the aggregate, the largest amount being \$800,000 for the waterway from Norfolk, Va., to Beaufort Inlet, N. C., with the provision that no part of that amount shall be expended until the canal and appurtenant property of the Chesapeake & Albemarle Canal Co. shall have been acquired by the Government in accordance with the agreement of a year ago. For the waterway connecting Mermentau and Sabine rivers, \$190,000 were appropriated, and for the route between Savannah, Ga., and Fernandina, Fla., including whatever may be necessary for the harbor at Darien, Ga., \$100,000.

The largest project affecting more than one State is the improvement of the Mississippi River, and for that \$9,001,000 were appropriated. Of that sum, \$7,000,000 are to be spent on the stretch of the river lying wholly within the South, not including the \$1,000,000 for the stretch from the mouth of the Ohio River to the mouth of the Missouri River, and the \$200,000 to be spent by the Mississippi River Commission for an examination of the river

from Cape Girardeau, Mo., to Rock Island, Ill., with a view to such improvements as will at the same time promote navigation, develop water-power and protect property from damage by flood. The next largest project of the kind carrying an appropriation of \$1,105,000 is the improvement of the Tennessee River in Tennessee, Alabama and Kentucky, of which \$510,000 are to be spent above Chattanooga, Tenn.; \$385,000 between Chattanooga and Brown's Island, Ala.; \$100,000 between Florence and Riverton, Ala., and \$110,000 below Riverton.

The \$202,500 for the improvement of the Ouachita River in Arkansas and Louisiana include \$175,000 for the construction of lock and dam No. 3, the \$136,000 for the Coosa River in Georgia and Alabama include \$30,000 for lock and dam at Mayo's Bar, near Rome, Ga., and \$81,000 for the construction of dam No. 5 in Alabama, and the \$117,000 for the Red River in Louisiana, Arkansas, Texas and Oklahoma include \$75,000 for the river below Fulton, Ark.

Bearing indirectly upon the improvement of the Mississippi River and tributaries in the South are the appropriations of \$1,800,000 for locks and dams to secure a navigable depth of nine feet in the Ohio River, affecting West Virginia and Kentucky, said improvement looking to further appropriations aggregating \$3,200,000.

Definite prospect of other appropriations is in the appropriation of \$250,000 for preliminary examinations and surveys at many points, including the following in the South:

Maryland.—Big Annessex River, Black Walnut harbor, Ferry Cove in Eastern Bay, mouth of Fishing Creek, Kent Island Narrows, Tillman Island harbor and Wicomico River.

Virginia.—Blackwater River, Coan River, harbor at Norfolk and Portsmouth and channel to Newport News, with a view to securing increased width of channel and providing additional anchorage area; Scott's Creek, Saxis harbor, Occoquan Creek, Ware River and the Norfolk-Beaufort waterway.

North Carolina.—Beaufort harbor, with a view to providing a suitable turning basin and anchorage area in front of the town at Beaufort; Menteo Bay, Newport River, Northeast Cape Fear River, Trent River, Thoroughfare Bay and Penbrooke Creek.

South Carolina.—Little Pee Dee River, Santee River, Jeremy Creek, waterways from Beaufort to Savannah and from Charleston to Savannah.

Georgia.—Brunswick harbor, Fig Island, General's Cut, St. Mary's River, Savannah harbor for a turning basin and the Savannah River from Savannah to Augusta and beyond.

Florida.—East Pass Channel, canal from St. Johns River to Lake Beresford, Clear Water harbor, Tampa harbor, Hillsboro River, Key West for a harbor of refuge, Ochlockonee and Crooked rivers, Crooked channel, Mosquito Inlet, Inland Waterway from Pensacola Bay to Mobile Bay and Shell Creek.

Alabama.—Mobile harbor and bar and Paint Rock River.

Mississippi.—Canal from Centennial Lake at Vicksburg to the Mississippi River.

Louisiana.—Bayou Lafourche.

Texas.—Mouth of Brazos River up to Freeport, with a view to securing a depth of 25 feet, and Seadrift channel.

Arkansas.—Arkansas River near Dardanelle and near Little Rock.



Kentucky.—Licking River and the Ohio River above the Louisville dam.  
Missouri.—Missouri River at Kansas City.

**CHANCE FOR A LEGISLATIVE  
EXPERT TO PUNCTURE THE  
NEWSPAPER PUBLICITY  
"LAW."**

Representative James R. Mann of Illinois, in criticizing developments of the concluding session of the Sixty-second Congress, has opened the door to a possible rectification of a baneful act of legislation, known as the newspaper publicity law, for which that Congress was responsible in the closing hours of its second session. He is quoted in the *Washington Post* to the effect that the public buildings bill authorizing an expenditure of nearly \$40,000,000 was really never passed by the Congress, although it was sent to President Taft and signed by him. Representative Mann's statement is based upon his analysis of the progress of the bill on the last night of the session, which he claims shows that through an apparent oversight only a part of the conference report was accepted by both houses, and that, therefore, the bill was never legally passed. He is quoted as follows:

A bill is not finally passed until every part of it has been agreed to by both the House and Senate; that is, there must be a complete agreement between the House and the Senate as to every part of the bill, including action on every amendment which has been made by one of the houses. While the Speaker and the President *pro tempore* of the Senate were justified in signing the enrolled bill and certifying it as having finally passed both houses, acting upon the statement of the committee on enrolled bills, yet they acted upon an error, and their certificate that the bill had passed the House and the Senate was not according to the facts. The certified enrolled bill was sent to the President and approved by him, but as the bill had not in fact finally passed both houses, all of these actions were illegal, and the public buildings bill is no more valid in case it be attacked than any other writing which should be certified and sent to the President for signature as an enrolled bill without ever having passed through either house.

Representative Mann's criticism of this particular measure suggests that he might convey to the country, from the inside viewpoint, an opinion on the validity of the postoffice appropriation bill of August 24, 1912, which has been attacked in the courts on the ground that the provisions affecting the conduct of the newspapers of the country are unconstitutional. The reason for this suggestion is in the words of Representative Mann, uttered at the time when the postoffice appropriation bill was in its last stages in the House of Representatives. On August 23, 1912, when the conference report on that bill was before the House and the demand for the previous question on the adoption of the report had been followed by a point of order by Representative Murdock of Kansas, that there was no quorum present, and by a request of Representative Underwood for unanimous consent as to the time of adjournment, Representative Mann said:

Mr. Speaker, reserving the right to object [as to the time of adjournment], will not the gentleman from Kansas withdraw his point of no quorum? Here it is Friday night. Tomorrow is Saturday, and the gentleman knows there is no quorum in town. . . . If a point of no quorum is made, it is probable that Congress will be in session another week, or perhaps two weeks. . . . I do not believe there is a quorum in town, and I do not believe there is a quorum that can be obtained on a roll call for another week.

A division of the House showed only 164 members present, not a quorum.

The next day the bill went to the President and was signed by him.

The thin ice as to the presence of the quorum upon which the House of Representatives was skating was manifest on Monday, August 26, in colloquies in which Representative Mann also figured. On the morning of the 26th Representative Samuel W. Smith of Michigan, rising for a parliamentary inquiry, said:

If a motion should be made to adjourn *sine die* and it developed there was no quorum, could the House adjourn?

To this Speaker Clark replied:  
Well, the emergency has not arisen. We will cross that bridge when we reach it.

Again, later in the day, when Representative Underwood of Alabama moved that the House take a recess for an hour, the following occurred:

Mr. LAFFERTY. Mr. Speaker, I make the point of order there is no quorum present.

THE SPEAKER. The gentleman, if he desires to do so, can make the point.

Mr. LAFFERTY. I desire merely to speak for five minutes on the subject which has been discussed here.

Mr. UNDERWOOD. I move that at the end of five minutes the House take a recess for one hour.

THE SPEAKER. The gentleman from Alabama moves that at the end of five minutes the House take a recess for one hour.

Mr. LAFFERTY. I withdraw my point.

Finally, when a member proposed a suspension of the rules, the following occurred:

THE SPEAKER. It would not do a particle of good to ask to suspend the rules, and it would not do any good for the Chair to recognize the gentleman, because here is the rule about suspensions:

"No rule shall be suspended except by a vote of two-thirds of the members voting, a quorum being present."

Of course the Chair will take official notice of the fact—

Mr. MANN. I hope the Chair will not make the announcement that there is no quorum present.

This circumstantial evidence leads to a strong inference that a quorum of the kind contemplated by the Constitution of the United States as absolutely necessary for the legal transaction of Congressional business was not present in the House of Representatives at the time of the purported passage of the postoffice appropriation bill of August 24, 1912. The circumstances point to Representative Mann as one eminently qualified to lead in an investigation that will throw full light upon the subject. Such an investigation will be of especial service to the people of the country in tending to put an end to the dangerous practices in national legislation which flourished so rankly in connection with the newspaper publicity law embodied in the postoffice appropriation bill.

The newspaper publicity law, which is still active except properly in the case of the *New York Journal of Commerce*, which is testing it before the Supreme Court, was a rider upon the appropriation bill. President Taft vetoed one bill at the session of the Congress under discussion because it carried a rider, and in his message he was emphatic in criticizing the dangers inherent in attaching riders to appropriation bills involving a lack of "deliberation and care," and hasty and imperfect theories of legislation furthered by methods that are "unwise and dangerous."

The danger was intensified in the case of the publicity law in that it contained a provision characterized by the Attorney-General of the United States as highly penal and "in derogation of common right." Furthermore, that provision was not discussed in either branch of Congress, and was not officially be-

fore either branch until within twenty-four hours of final action on the supposed law. This particular provision came to light by way of a conference report, but in the statement which was presented in lieu of the reading of the conference report and designed to summarize it, the particular provision was not made public. This all happened at a time when Representative Mann was insisting that there was no quorum in town, when an actual count of heads showed only 164 members of the House present, although more than 190 were necessary to make a quorum according to the Constitution, and when there was much apprehension that some member would insist upon making a point of order that no quorum was present.

It is quite reasonable to believe that even a majority of the 164 members present were unaware of the full text of the measure upon which they were supposed to vote.

An investigation of all the facts and circumstances led by Representative Mann would be a good start for a movement to prevent resort to the rider in legislation and to make invalid any act placed upon the statute books by a bogus quorum. It might also be of assistance to the United States Supreme Court in its review of the newspaper publicity "law."

**TO GET ACTION ON ONE'S MONEY.**

Hon. A. L. Morgan, Mayor of Camden, Ark., in writing about a notice published in the *MANUFACTURERS RECORD* to the effect that the town was in the market for steel cells for a small jail, says:

Since this notice appeared in your paper I have been receiving communications relative to this work from all parts of the country. This goes to show that the *MANUFACTURERS RECORD* is a live means for getting news disseminated, and one who has any contract work to let can get "action on his money" if expended through the *MANUFACTURERS RECORD*.

**INDUSTRIAL ACTIVITIES SOUTH.**

Since January 1, 1913, there has been published in the columns of the *Daily Bulletin* and the *MANUFACTURERS RECORD* a total number of 15,670 brief and concise statements relative to numerous and varied undertakings and accomplishments along the almost limitless lines of industrial, railroad, financial and other developments, building operations, etc., undertaken in the South.

These condensed records have contained all available information, from start to completion, regarding diverse propositions, ranging from extensive land drainage to building of skyscraping structures and the equipment of offices in the topmost stories of those structures. "We can trace probably one-half of our orders to the *Daily Bulletin of the Manufacturers Record*," lately wrote a Southern metal-working company. Another company, writing of wanting steam shovel, hoisting engine and crusher, said: "Please insert in *Daily Bulletin* our wants, we knowing that we will get quick results." A third correspondent declared: "I write this because we feel your people . . . never exaggerate a proposition." The latter statement is especially interesting, as it is our aim to present facts, and facts only, in regard to the many thousands of enterprises chronicled as planned and consummated in the South—facts that, thus concisely given, do their own direct speaking to the interested reader. These facts are gathered from all reliable sources, and necessitate correspondence amounting to thousands of letters weekly—a correspondence with promoters and capitalists, engineers, designers and contractors, offi-

cers of State, county and municipal organizations, bankers, railroad operators and other business and professional men, as well as builders of homes, apartment-houses, hotels, schools and churches.

Relative to these buildings, already, since January 1 of this year, our "Building News" columns have contained 5564 items, this number including 428 on erection of apartment-houses, 908 store items, 489 school, 194 warehouse and 1490 dwelling items—this, of course, not meaning 5564 different structures, since a large proportion of the buildings were mentioned twice or oftener, as further plans or contracts were announced. Just so it is with our lists of various notices on general industrial developments, where the gaining of additional information relative to change of or advancement in plans, estimates solicited, contracts let, or machinery or equipment described or needed, causes us to publish a fresh item on a previously-presented enterprise, in order that the need on the one hand may be met by the supply on the other, even in such wise as recently occurred in a city whose Board of Public Works secretary wrote us, referring to water and electric-light systems: "We have sent out over 50 copies of the specifications already as the result of the ad. in your paper."

In detail, the summary of these reports for the month of March and for the first three months of the year is as follows:

	March.	3 months' total, January, February and March.
<b>Industrial and Developmental.</b>		
Bridges, Culverts, Viaducts.....	50	158
Canning and Packing Plants.....	25	82
Clayworking Plants.....	39	67
Coal Mines and Coke Ovens.....	55	144
Concrete and Cement Plants.....	13	28
Cotton Compresses and Gins.....	26	69
Cottonseed-oil Mills.....	10	39
Drainage and Irrigation.....	21	86
Electric Plants.....	114	343
Fertilizer Factories.....	8	25
Flour, Feed and Meal Mills.....	25	62
Foundry and Machine Plants.....	35	148
Gas and Oil Enterprises.....	129	348
Ice and Cold-storage Plants.....	42	142
Iron and Steel Plants.....	4	19
Land Developments.....	87	297
Lumber Manufacturing.....	106	318
Metal-working Plants.....	8	46
Mining.....	36	163
Miscellaneous Construction.....	48	153
Miscellaneous Enterprises.....	121	379
Miscellaneous Factories.....	183	649
Motors and Garages.....	42	136
Railway Shops, Terminals, Round-houses, etc.....	6	43
Road and Street Work.....	176	510
Sewer Construction.....	62	193
Telephone Systems.....	23	108
Textile Mills.....	90	140
Water-power Developments.....	9	49
Water-works.....	91	278
Woodworking Plants.....	51	145
<b>Buildings.</b>		
Apartment-houses.....	190	428
Association and Fraternal.....	53	155
Bank and Office.....	126	336
Churches.....	139	395
City and County.....	22	75
Courthouses.....	79	243
Dwellings.....	592	1,490
Government and State.....	19	79
Hotels.....	66	206
Miscellaneous.....	73	287
Railway Stations, Sheds, etc.....	60	170
Schools.....	172	489
Stores.....	315	908
Theaters.....	50	109
Warehouses.....	63	194
<b>Railroad Construction.</b>		
Railways.....	170	507
Street Railways.....	24	87
<b>Financial.</b>		
Corporations.....	164	641
New Securities.....	366	1,075
	4391	13,231
Burned, etc.,.....	242	789
Machinery, Proposals and Supplies Wanted.....	555	1,650
Totals.....	5188	15,670

**A NEWSPAPER'S EXPANSION.**

In celebration of its occupancy of its new home, the *Times-Dispatch* of Richmond threw open to the public all the departments of its plant in the creation of which it has been a pioneer in the South, and thus emphasized the expansion of its activities which have kept pace with the growth of Richmond in the past 25 years. The *Times* was founded in 1885, and in

1887 became the property of Joseph Bryan. At that time Richmond was just beginning to manifest its full vigor after recovery from the desolation of war, and the *Times*, which by consolidation in 1903 with the *Dispatch* became the *Times-Dispatch*, was active and persistent, not only in building up the material interests of the community and the State, but in making for betterment in education and in public life. With commendable pride it reviews its service in a special "expansion section" of its last Sunday's issue.

#### A PROSPERITY NUMBER.

The Southern Prosperity Number, published last week in 15 sections of 12 pages

each by the *Courier-Journal* and *The Times* of Louisville, Ky., commemorating the forty-fourth anniversary of the *Courier-Journal* and the occupancy of the new home of the two papers, is a splendid basis for a history of Kentucky and the contiguous Southern States in the past 50 years and an exposition of the prosperity which has come to the two papers consequent upon their active participation in the upbuilding of their community and their section. There is hardly a phase of activity in a prosperous region that is not covered in this notable issue, and the whole is fully illustrated by halftone engravings.

## Vast Hydro-Electric Plans.

### WHAT FUTURE DEVELOPMENTS WILL BRING FORTH IN ALABAMA.

The Alabama Power Co. of New York, in a wire to the MANUFACTURERS RECORD, referring to a statement recently issued in regard to the water-power sites owned by that company having an aggregate of over 1,200,000 horse-power available for development, says:

"This represents maximum available power at 40 per cent. load factor when storage reservoirs contemplated by United States have been built and reinforced by steam plants which we intend to construct for provision against interruptions and exceptionally dry seasons. This project will naturally cover a period of many years. No work is now under way or immediately contemplated other than Lock No. 12 on the Coosa River, hydraulic plant of 50,000 kilowatts, and Gadsden steam plant of 10,000.

"We intend to use every effort to attract to Alabama industries requiring cheap power, and our construction program will follow the demand."

The announcement that this company proposes to use every effort to aid in industrial development of Alabama is only in line with what we have repeatedly published, but it is emphasized by this strong statement direct from the company. It means much for Alabama and much for the South, and should stimulate every other water-power enterprise in the South to carry on a similar broad campaign of development.

The sites owned by the company, according to a confirmation given in the telegram quoted, include the following:

Coosa River, Lock 7—45,000 horse-power; 28 miles from Birmingham; 76 miles from Montgomery.

Coosa River, Lock 12—105,000 horse-power; 38 miles from Birmingham; 45 miles from Montgomery.

Coosa River, Lock 14—100,000 horse-power; 43 miles from Birmingham; 41 miles from Montgomery.

Coosa River, Lock 15—80,000 horse-power; 57 miles from Birmingham; 27 miles from Montgomery.

Coosa River, Lock 18—100,000 horse-power; 65 miles from Birmingham; 18 miles from Montgomery.

Tallapoosa River, Cherokee Bluffs Site. 115,000 horse-power; 76 miles from Birmingham; 32 miles from Montgomery.

Tennessee River, Muscle Shoals Site—400 horse-power; 98 miles from Birmingham; 180 miles from Montgomery; 150 miles from Memphis; 128 miles from Chattanooga; 103 miles from Nashville.

Savvy Creek—6000 horse-power; 80 miles from Birmingham; 150 miles from Montgomery; 35 miles from Gadsden.

Town Creek—7000 horse-power; 75 miles from Birmingham; 140 miles from Montgomery; 30 miles from Gadsden.

Little River—52,000 horse-power; 88

miles from Birmingham; 143 miles from Montgomery; 34 miles from Gadsden.

Choccolocco Creek—2000 horse-power; 37 miles from Birmingham; 82 miles from Montgomery; 32 miles from Gadsden.

#### \$2,000,000 COMPANY ORGANIZED.

##### To Manufacture Portland Cement, Hydrated Lime and Fluxing Stone in Birmingham District.

The Blount Mountain Cement, Coal & Lime Co. has been organized with a capitalization of \$2,000,000 for the purpose of building plants at Village Springs, Ala., where it has acquired 3595 acres of land containing extensive deposits of limestone and shale for cement and lime manufacture, besides large quantities of coal which will be held for future development. Plans and specifications are now being prepared for the construction of a \$750,000 plant to have a daily capacity of 1500 barrels of Portland cement, designed for immediate doubling; also for a \$100,000 plant with a daily capacity of 50 tons of hydrated lime, and a \$50,000 plant with a daily capacity of 1000 tons of fluxing stone. All the buildings will be of steel and concrete construction, and the entire equipment will be driven by electric power. The cement plant will have four upright kilns, and its buildings will include an 80x44-foot kiln building, a 96x52-foot stockhouse, a 64x44-foot hydrator building, etc. Construction will begin at once on the hydrated lime plant, to be followed by construction on the cement plant.

Richard K. Meade of Baltimore is the consulting engineer, and will be in charge of all purchases for the company, which is undertaking its own construction. The company's officers are as follows: President and general manager, J. C. McGinnis, president of the First National Bank of Frackville, Pa.; vice-president, C. A. Snyder; secretary, Alfred V. Weaver; treasurer, P. J. Costello of Philadelphia. Messrs. McGinnis, Costello, G. A. Scheebell, vice-president of the Nazareth Bank of Nazareth, Pa., and Frederick Sotter of Coatesville, Pa., comprise the executive committee, with executive offices at Philadelphia.

#### New Men in Kentucky Portland Cement & Coal Co.

Waldo Newcomer, president of the National Exchange Bank; William Woodward Cloud, president of the State Bank of Maryland; John S. Armstrong, director of the Munsey Trust Co., and Daniel O'Reardon, president of the Federal Finance & Construction Co., Munsey Building, Baltimore, have been elected directors of the Kentucky Portland Cement & Coal Co. of Baltimore. The board

of directors now consists of these new members and Robert S. Maslin, president of the company; John B. Pirtle, vice-president of the Louisville Trust Co., Louisville, Ky.; George G. Fetter, president of the George G. Fetter Company, Louisville; Albert W. Sisk, president of the Provident Savings Bank, Preston, Md.; Harry J. Mathews, of Thos. Matthews & Son, Baltimore, treasurer; John Stinson of Baltimore; William L. Haworth, secretary; John W. Wreischbach, Portland cement expert and general superintendent of the company; J. A. McCarthy, Louisville, and Ralph C. Lupton of Wilmington, Del. A branch office of the company is in the Lincoln Building, Louisville, and the works and mines are at Pine Hill, Ky.

#### Lead Production in 1912.

The final figures of the production of lead in the United States in 1912 have just been published by the United States Geological Survey. These figures have been compiled by C. E. Siebenthal of the Survey from reports of the output of each lead smelter and refinery in operation in this country in 1912. Two tables are given. The first one shows the lead smelted in this country from ore from each lead-producing State and from each foreign country furnishing ore for treatment. These figures include soft lead, lead content of bullion (that is, "work lead"), and antimonial lead, and their total necessarily does not agree with the total refined lead output of the country, shown in the second table. The refined lead, however, cannot be traced to its sources so exactly as the smelted lead; hence the figures for smelter production are used in the table showing production by States.

The total production of refined lead in 1912 was 480,894 short tons, which is 71 tons less than the estimate given out by the Survey on January 2, 1913. This quantity is exclusive of 13,552 tons of antimonial lead. The total of refined lead is made up of 88,377 short tons of desilverized lead of foreign origin, 221,480 tons of desilverized lead from domestic ores, 141,248 tons of domestic soft lead, and 29,789 tons of desilverized domestic soft lead. The value of the whole quantity of refined lead was \$43,280,460; of this, the domestic lead was worth \$35,326,530, calculated at 4.5 cents per pound, the average New York price for the year. The total refined lead output was less than that for 1911 by 6085 short tons, a decrease of 1.2 per cent.

Among the States, Missouri had the greatest output, 162,610 tons, a decrease of almost 20,000 tons from that of the previous year. Idaho had the next largest production, 127,707 tons, a gain of 10,372 tons over the output of 1911.

In the absence of complete figures of domestic stocks, it is not possible to calculate consumption except for the lead of foreign origin. However, by taking into account domestic production and foreign imports, exports and stocks in bonded warehouse, it is possible to estimate the quantity of lead available for consumption from year to year. On this basis the lead available for consumption in 1912 was 410,953 tons, an increase of 11,766 tons, or 2.9 per cent. Whether this increase represents an increase in consumption or an increase in domestic stocks is not determinable from the information at hand.

The report includes a graphic chart showing the fluctuation of the price of lead at New York and London for the period 1906-1912, a list of lead smelters and refineries in the United States, a table of the lead production of the world by countries, and tables of imports of lead by countries and by classes, as shown by

the records of the Bureau of Foreign and Domestic Commerce. The general imports of lead show a continued decline from 1909, when 225,090,312 pounds of lead was received to 1912, when the imports were 167,121,592 pounds. Of the 1912 imports, 159,455,664 pounds was received from Mexico in the form of ore or base bullion, 3,207,936 pounds of lead in ore from South America, and 3,309,356 pounds from other countries, mostly in ore from German East Africa.

A copy of the report may be obtained by addressing a request to the Directors, United States Geological Survey, Washington, D. C.

#### Georgia Drainage Congress.

The program of the Georgia Drainage Congress at Savannah this week includes, in addition to addresses by Mayor Davant and State Senator L. R. Aikin, president of the congress, papers by E. J. Watson of South Carolina, vice-president of National Drainage Congress, on "National Drainage;" J. V. Phillips of Savannah, United States Drainage Engineer, on "Progress of Drainage in Georgia;" C. G. Elliott, Chief of Drainage Investigation of the United States Bureau of Agriculture, Washington, D. C., on "Land Reclamation by Drainage;" A. R. Lawton of Savannah, vice-president Georgia Drainage Congress, on "Railroads' Interest in Drainage;" Prof. S. W. McCallie, State Geologist of Georgia, on "The Swamps of Georgia;" Congressman C. G. Edwards of Savannah on "National Aid Toward Drainage;" Judge J. L. Sweat of Waycross, on "Modifications of the Georgia Drainage Laws;" Dr. L. G. Hardman, on "Tile Drainage;" W. H. Leahy, general passenger agent of A., B. & A. Railroad, on "Practical Methods of Securing Settlers;" W. F. Brown, Chatham County Engineer, on "Drainage in Chatham County;" Judge Max McRae of McRae, Ga., on "The Influence of Drainage on Agricultural Development;" Senator G. W. Deen of Waycross, Ga., on "Practical Drainage in Georgia."

#### For a Buyers' Club.

H. E. Gilman of the Marathon Motor Works, Nashville, Tenn., is anxious to get in touch with the purchasing agents of the country who may be interested in "The Buyers' Club of America," which he is seeking to organize. Mr. Gilman states that the object of this club, for which he has drawn up the by-laws and the certificate of incorporation ready to be executed, is to bring closer together the men connected with the purchasing end of American organizations. He adds: "There is no such organization in existence today, and if the traffic men, engineers and men of other vocations in life can maintain a club, why cannot we purchasing agents do the same thing? Anybody connected with the metal industry would be eligible to membership. This organization, when once perfected, will not only be national, but international, in its scope."

#### Interstate Cottonseed Crushers.

At a meeting of the executive committee of the Interstate Cottonseed Crushers' Association at New Orleans, La., last week, it was decided that the next annual meeting of this association would be held in Chicago, Ill., June 9-11. The meeting of the rules committee is to be held in Chicago June 6-7. The officers of the association are C. W. Ashcraft of Florence, Ala., president; M. E. Singleton of St. Louis, Mo., vice-president, and Robert Gibson of Dallas, Tex., secretary and treasurer.



# Appreciation of The South: The Nation's Greatest Asset

Not in any boastful spirit or pride of achievement, but merely because of the good that will come to the South through the wide circulation of "The South: The Nation's Greatest Asset," issued last week by the MANUFACTURERS RECORD, we give brief extracts from some letters received and editorial commendations about that publication and its value to the South.

Many other commendations in addition to the ones published today have been received, and will be published later.

In projecting "The South: The Nation's Greatest Asset" the MANUFACTURERS RECORD promised that it should be the broadest and most important publication of the kind ever issued in this country in behalf of any section. We believe that that promise has been fulfilled.

We knew full well when the title was chosen that some would question the correctness of the assertion that the South is the nation's greatest asset, while others, to whose attention such a thought had never been brought, would study it with open mind.

The name itself has created a widespread discussion, which will continue to swell from day to day and week to week, as to whether it is, indeed, true that this section has been so richly endowed that it is as a whole a greater material asset than any other part of the United States.

Do you believe that the South is the nation's greatest asset? If so, can you prove it?

Do you doubt the South is the nation's greatest asset? If so, can you disprove it?

We do not believe that this can be proved or disproved without a careful study of the facts presented in the publication "The South: The Nation's Greatest Asset," for into that has been gathered more information about the South and its resources than is available anywhere else, and never before has such a presentation of the resources of this section been made.

We believe that every intelligent, thinking man in the South should have a copy in his office and a copy in his library.

Typical of the expressions of commendation which have come from many sources, and showing the widespread influence which this publication will have, is a letter from E. J. Edwards of New York, widely known throughout the United States as a writer for leading publications under the nom de plume of "Holland," in which he says:

"Not the least of the many evidences of the amazing intellectual and material development of the South is the extraordinary compilation which you publish with the highly appropriate title 'The South: The Nation's Greatest Asset.'

"The industry and energy, to say nothing of the money cost of such a publication, of themselves bear witness to the truth that is contained in the title. The work is of vast national value.

"You are certainly to be congratulated, and can feel assured that among the great assets of the South is the MANUFACTURERS RECORD."

Few men in America are more closely in touch with the financial interests of the country than "Holland," who for probably a quarter of a century has been one of the most noted writers in America on questions affecting the economic development of the United States. His enthusiastic endorsement but voices what we are hearing from many others, and these statements are published merely to help forward the campaign for the broadest, world-wide circulation of the facts about the South to be found in "The South: The Nation's Greatest Asset."

The price of "The South: The Nation's Greatest Asset" is, in paper cover, \$1; cloth, \$1.50; leather, \$3.

C. B. Jenkins, president Cameron & Barkley Company, machinery, phosphate, plumbing and mill supplies, Charleston, S. C.:

"We do not know that we can acknowledge in a better manner your publication of March 27, entitled 'The South: The Nation's Greatest Asset,' than to enclose you copy of letter we are writing a number of our friends at the North, and we desire you to send to the following bankers and manufacturers a copy of this number:

"Dodge Manufacturing Co., Mishawaka, Ind.

"Morris Machine Works, Baldwinsville, N. Y.

"Republic Iron & Steel Co., Pittsburgh, Pa.

"Youngstown Sheet & Tube Co., Youngstown, O.

"Simonds Manufacturing Co., Fitchburg, Mass.

"Revere Rubber Co., Chelsea, Mass.

"Foos Gas Engine Co., Springfield, O.

"Lidgerwood Manufacturing Co., 96 Liberty street, New York, N. Y.

"The Philip Carey Company, Cincinnati, O.

"The Link Belt Engineering Co., Philadelphia, Pa.

"Erie City Iron Works, Erie, Pa.

"Crane Company, Chicago, Ill.

"Standard Sanitary Manufacturing Co., Pittsburgh, Pa.

"Graton & Knight Manufacturing Co., Worcester, Mass.

"John A. Roebling's Sons Company, Trenton, N. J.

"National Tube Co., Pittsburgh, Pa.

"Mechanics' and Metals National Bank, New York, N. Y.

"Hollingshead & Campbell, New York, N. Y.

"You deserve great credit for this magnificent display of the South's possibilities, and we will be glad to have at least three or four additional copies for use in our home libraries."

Hollingshead & Campbell, New York, N. Y.:

Gentlemen—We are requesting the MANUFACTURERS RECORD to mail you a copy of their recent edition entitled "The South: The Nation's Greatest Asset." We consider this edition a valuable adjunct to the business or home libraries of anyone interested in the development of their country. We know that if you will take the time to read it, it would sound almost like a fairy tale and almost "too good to be true." These facts are gotten together after careful investigation, and in the main we feel quite sure are as correct information of this kind as can be secured.

We call your special attention to our advertisement on page 308, and would also like you to note the advertisement on the lower half of page 106, of the General Asbestos & Rubber Co., which is owned and controlled by the officers of this company.

We trust you will find this edition of the MANUFACTURERS RECORD very interesting reading matter, and with kind personal regards we are,

Yours very truly,

THE CAMERON & BARKLEY CO.

Victor I. Masters, editorial secretary Home Mission Board of the Southern Baptist Convention, Atlanta, Ga.:

"Last night in my home for the first time I looked over your new and wonderful product, 'The South: The Nation's Greatest Asset.' I promise myself great profit and pleasure in reading it. Really, it contains in regular reading matter, outside of advertising, that which would be equal to an average book of from 800 to 1000 pages, at least. Last year you did a truly remarkably work in your 'Thirty Years of Southern Upbuilding,' but that was only a stepping-stone, an effort through which you learned how, apparently, to produce this work of this year. Not only has the South never had any such splendid presentation to the public, but I feel sure no other section has ever had any such presentation. I never saw anything to equal it. I am not an educator, but I am going to take a trial shot in the May magazine by saying that our colleges in the South would do well to adopt 'The South: The Nation's Greatest Asset' as a study for all of their classes for one year. It would amount to far more in equipping our youth for patriotic and effective service to our country than perhaps any one study they might take. And you have enough material there to keep a man studying for several months, even if he did nothing else. I am particularly struck with the interview with 'Uncle Sam.' You make 'Uncle Sam' say some things that he sure enough ought to be saying in regard to the South, and I feel sure that this interview will attract attention, for it is arranged in a more popular form than the average article on the subject which it covers. Surely no one production has ever appeared which promises to contribute so much to the upbuilding of our Southern section and the nation."

L. N. Buell, secretary Cullman Commercial Club, Cullman, Ala.:

"The only phrase I can think of at present wherewith to express my appreciation of the great extra edition, entitled 'The South: The Nation's Greatest Asset,' is a borrowed one—'Great, bully, dee-lighted.' It but in a small measure expresses my sentiments on this great work. I thought when 'Thirty Years of Southern Progress' was issued you had about reached the acme of perfection, but the present edition is the cap sheaf. While I have only had 24 hours to scan over its columns, yet I unhesitatingly pronounce it the greatest paper that has ever been published on the resources of the South. Mine shall be carefully preserved for reference purposes. I would consider it cheap at \$100 per copy, and would not take that for mine could I not secure another. I am only sorry that we could not have had a write-up of Cullman county therein, as this county stands in regard to per capita wealth second in the United States agriculturally. The following figures are authoritative, totaling the value of all farm crops, and dividing this by the rural population residing in villages of less than 2500 population the list stands as follows: Berks county, Pennsylvania, \$52.54; Bucks county, Pennsylvania, \$84.86; Chester county, Pennsylvania, \$72.64; Lancaster county, Pennsylvania, \$97.35; Cullman county, Alabama, \$90.21. Your latest great work will certainly accomplish great good for our beautiful South."

Edwards & Patterson, pecan grove and nursery, Milledgeville, Ga.:

"We certainly believe that this publication is the greatest compendium of facts that has ever been published in this or any other country. We believe that it will not only be worth millions of dollars to the advertisers who were fortunate enough to have space on its pages, but to every man, woman and child, for years to come, who live in this, 'the Nation's Garden Spot,' the Nation's Greatest Asset. We have noted with a great deal of interest and pleasure the space that you have been giving in the regular issues of the MANUFACTURERS RECORD in calling your readers' attention to the list of advertisers who would have space in 'The South: The Nation's Greatest Asset,' and being a subscriber and an advertiser in this publication, we consider this a personal favor, and wish to thank you for our share in this publicity. We have received a number of inquiries already from people from different parts of the country requesting our catalogue, advising that they saw our advertisement in 'The South: The Nation's Greatest Asset.' This would indicate that we are to have immediate results from this advertisement. We firmly believe that you have made good your claim that the South is really and truly 'the Nation's Greatest Asset,' and we believe that it should be in every man's library, and we believe that it would be a valuable addition to the public school libraries. We are proud to possess it, and thank you for calling our attention to it."

T. H. Coker, Jr., president and treasurer Hartsville Publishing Co., the Hartsville Messenger, Hartsville, S. C.:

"'The South: The Nation's Greatest Asset' was the most welcome caller at our office today. The beauty and delight of it is that it has decided to make its home with us. It is indeed a pleasure to feel that 348 pages of such valuable information is to be where we can refer to it at any time for statistics which will help us in our efforts to keep our readers intelligently posted on what has been, is being and what may be expected to come to pass in this nation's (which means the world's) greatest and most favored portion. We appreciate highly that we are among those who have the honor and privilege of receiving your most valuable publication each week. This latest effort even surpasses in many respects your former achievement, 'Thirty Years of Southern Progress.' The MANUFACTURERS RECORD, we almost feel, is the South's greatest asset, and blends harmoniously with your title page, 'The South: The Nation's Greatest Asset.' No business man can afford to be without a copy."

Charles P. Light, field secretary American Highway Association, Washington, D. C.:

"I have before me Part II of the MANUFACTURERS RECORD for March 27, 1913, entitled 'The South: The Nation's Greatest Asset.' As we received it only yesterday morning, I have not had time to examine it carefully, but I cannot refrain from writing you at this time to congratulate you on the success of the untiring efforts that

were necessary in order to gather the marvelous amount of data of almost every kind and character that the volume contains, as well as the editing of it. I trust that your labors in this instance shall not have been in vain, and that your many friends throughout the country, especially in the South, will be constrained to give visible expression of their appreciation of them."

W. T. Martin, president and general manager Interstate Land Co., Inc., Atlanta, Ga.:

"Answering the query, 'Is the South the nation's greatest asset?' one only has to read the array of facts compiled by you under that title to be able to answer most emphatically, yes. I have for the past ten years been very optimistic over the future of the South, but the array of facts you produce are simply astounding, and certainly prove beyond a doubt that the South is the nation's greatest asset. And I might add that the greatest exponent of the South's resources and the one to whom the South is most indebted is the MANUFACTURERS RECORD, whose foresight and wide range of thought, as well as wonderful mastery of cold facts, has been largely instrumental in bringing this about. That you have made good there can be no doubt."

E. J. Edwards, Union League Club, New York:

"Not the least of the many evidences of the amazing intellectual and material development of the South is the extraordinary compilation which you publish with the highly appropriate title 'The South: The Nation's Greatest Asset.' The industry and energy, to say nothing of the money cost of such a publication, of themselves bear testimony to the truth that is contained in the title. The work is of vast national value. You may have seen that recently in my Holland letters I have referred to and made use of information that I have obtained from the MANUFACTURERS RECORD and have given credit. You are certainly to be congratulated, and can feel assured that among the great assets of the the South is the MANUFACTURERS RECORD."

E. L. McColgin, secretary Chamber of Commerce, Shreveport, La.:

"I have just finished examining your 'Asset Number,' and desire to congratulate you upon the excellence of the work. It will be of material assistance to everyone engaged in Southern development work. In putting the facts and conditions about the South as it now is before the nation in such an attractive form the MANUFACTURERS RECORD has performed a great service for the South. In the 'Asset Number' this organization takes pride in being represented in its advertising pages. If it is true that the patronage of your advertisers made the production of the work possible, we are sure that the expenditure was more than justified."

George T. Leach, Eureka Lumber Co., Washington, N. C.:

"We have not had time to go into all the issue in detail, but from general observation, and making comparison of our own section, Eastern North Carolina, your report is modest, and in many instances the progress and production of the South is less than the actual results in our section. We think you have made good in your effort to place before the world a true pen picture of the South, and it is fair to say that it is the finest production that has ever been offered. Allow us to think you for the effort made to place the South and her interests before the whole country in such an able manner."

Watt T. Brown, chairman the Alabama School of Trades and Industries, Ragland, Ala.:

"I have gone over this edition very carefully, and it would be difficult for me to express my appreciation of the facts and figures as you have put them together on the development and resources of the South. I was born and reared in the South, and it is with gratitude that I see and understand the great development of the South as it is taking place around me today. The entire South owes you a debt of gratitude for bringing so prominently before the world its great opportunities and development."

Charles F. Stodder, president and general manager India Alkali Works, Boston:

"The Southern States are a great national asset. We are not going to try to prove or disprove it, but wanted to say this: one of the great assets of the South is the publication called MANUFACTURERS RECORD, and present issue of Part II will not only surprise many of your readers, but should be of great value in the South itself as an incentive to each bustling enterprise to know that it is surrounded by still others, and this will help to stimulate enterprising workers."

D. F. Conley, president Tampa & Tarpon Springs Land Co., Tampa, Fla.:

"I am swelled up with pride and can find no words that satisfactorily express my admiration. The result of your efforts far exceed my greatest expectations. If this had been your only effort on behalf of the South, you have made them your debtor, and to pay you the thanks and gratitude due you would bankrupt them, even though you have proven that they are possessed of the 'Nation's Greatest Asset.' I regret that I am unable to more adequately express my appreciation."

Edwin C. Eckel, Washington, D. C.:

"This special number of the MANUFACTURERS RECORD reached me yesterday, and you must allow me to congratulate you upon the complete and forceful way in which you have presented all the points of your case. Of course, we know what the South is, and what it will be, but there are still too many people who do not appreciate the strength of its position."

Eugene Levering, president the National Bank of Commerce, Baltimore, Md.:

"I congratulate you upon such an issue of not only marked ability in its get-up, but indicating its important position which it holds as a means of communication to all parties interested in the present and future development of the South."

Clark Howell, editor the Atlanta Constitution, Atlanta, Ga.:

"There never has been such a comprehensive presentation of the resources of the South, and this edition should be in the hands of every business man in the South."

It is a wonderful contribution, and the compilation of statistics is invaluable. It more than comes up to the standard we set for it in our editorial about it written in advance of its publication."

D. H. Greene, general manager the Vinegar Bend Chemical Co., Inc., Vinegar Bend, Ala.:

"In your book, 'The South: The Nation's Greatest Asset,' you have compended an encyclopedia such as no section has ever had to exploit its resources, and in the advertising columns the evidences of progress are even better illuminated than in the special articles. All this unquestionably will do much good."

W. P. Lay, Gadsden, Ala.:

"I wish to congratulate you on this splendid work, and to say that, in my opinion, the book well deserves to be called the nation's greatest publication. I hand you herewith my check for \$6, for which please send me two copies of 'The South: The Nation's Greatest Asset' bound in leather."

Edward Wheeler Parker, United States Geological Survey, Washington, D. C.:

"From a cursory glance through its interesting pages, I must say that it comes up not only to my anticipations, but also to those of the proprietors of the MANUFACTURERS RECORD, whose past and present efforts in this line have shown the setting up of an ideal impossible to attain, and then surpassing it."

Oscar C. Turner, president Southern-Wesco Supply Co., Birmingham, Ala.:

"It is a most masterly arraignment of the impressive facts that you started out to prove, and which you have done in a most convincing and interesting manner. I congratulate you on your publication, and assure you that we are glad that we are a small part of it."

The Macon Lumber Co., Thomasville, Ga.:

"You have certainly made good your claim in reference to the South, and we think this issue will do a great deal of good if scattered broadcast over the North and West. It is certainly an eye-opener, and contains facts that we did not know existed. You have done yourself proud."

E. G. Moffitt, secretary the Moffitt Iron Works Co., Sanford, N. C.:

"We feel that the MANUFACTURERS RECORD deserves the hearty co-operation of every Southern man, as we believe it has had more to do with the upbuilding of the South than any other one thing by far. We appreciate your efforts more than we can express."

J. C. Wands, assistant cashier Merchants-Mechanics' National Bank, Baltimore, Md.:

"I had no idea that there were such vast resources in the South until your paper enlightened me. I assure you it is very interesting, and I greatly appreciate your thought of me in sending me a copy."

Philip E. Yeatman, assistant secretary the Industrial Commission, Norfolk, Va.:

"The publication is certainly a most valuable and instructive one, and is necessarily the finest exploitation the South has ever had, and the individual articles are splendid. Please accept our congratulations on the excellent result of this effort."

A. B. Edwards, Sarasota, Fla.:

"I firmly believe there is no medium in America that is doing as much good for the South as the MANUFACTURERS RECORD. I commend greatly the series of articles on Florida published in your valuable publication."

John Jermain Porter, metallurgical engineer, Staunton, Va.:

"I wish to congratulate you on 'The South: The Nation's Greatest Asset.' It is evident that it was a stupendous undertaking and one which will be of the very greatest value to the South."

R. L. Beauchamp & Co., wholesale manufacturers of monumental and building work, Rion, S. C.:

"There is no praise too high for it. We would not have missed the valuable information it holds in such painstaking care with which you have gotten it out."

H. R. Hilton, secretary and treasurer Allegany Window Glass Co., Port Allegany, Pa.:

"As an old land-grant advertiser for a Western railroad, I want to congratulate you. Such advertising as this will certainly bring results for the South."

Edward L. Robinson, vice-president Eutaw Savings Bank of Baltimore:

"This reflects very creditably upon your enterprise, and its wide circulation will be of great benefit to the people whom you are striving to serve. Please accept my congratulations."

C. C. Callaway, secretary Chamber of Commerce, Athens, Ga.:

"This issue surpasses anything I have ever seen. Your paper is certainly doing a great work for the South, and only the greatest good can come from it."

W. B. Powell, secretary Board of Trade, Tampa, Fla.:

"Congratulations. Wonderful, magnificent, almost incomprehensible. The South owes you more than it contributed to the issue. It is inspiring."

Boyd & Bradshaw, Columbia, Miss.:

"We think you have made good your claims, and then some."

Charles Catlett, Hagerstown, Md.:

"The interview with Uncle Sam was perfectly fine. It gives a 'carrying power'



to the statistics which they would not otherwise have had—and what a wonderful array they are! I got absorbed in the story this afternoon, and everyone in the office left, and by the time I had finished it I almost missed my dinner. It was a splendid piece of work and will do much good."

W. W. Baldwin, Jr., Fellsmere Farms Co., New York:

"Certainly it is an achievement to have gotten out such a publication, and it reflects great credit upon your organization."

Robert L. Steele, president Steele's Mills, Rockingham, N. C.:

"Is the 'best thing ever.' Could not be improved on, and this increases the South's obligation to the MANUFACTURERS RECORD."

G. M. MacDonough, Lakeland, Fla.:

"I find it to be the most valuable publication I have ever been able to find pertaining to the South."

I. Ray, secretary Electrical Engineering & Contracting Co., Raleigh, N. C.:

"This is a very creditable work, and is an exemplification of the great energy of your editors and field workers."

Henry Schachte, president the Germania Savings Bank, Charleston, S. C.:

"We congratulate you on the publication, which we think cannot be equaled anywhere."

Governor Wm. Hodges Mann, Richmond, Va.:

"As you know, I am very partial to the MANUFACTURERS RECORD. I believe it is doing a great work."

C. E. Siebenthal, geologist, United States Geological Survey, Washington, D. C.:

"I wish to congratulate you on a fine piece of work. It ought to do much good."

C. L. Farnsworth, Ayer, Mass.:

"You surely have made good."

#### COMMENTS OF THE PRESS.

[Columbia (S. C.) State.]

"The South: Is it the Nation's Greatest Asset?" Convincingly to answer that question in the affirmative is the purpose contemplated and effected in the publication of an illustrated pamphlet of 348 pages, which forms Part II of the MANUFACTURERS RECORD (Baltimore) for March 27. The supplement is a journalistic achievement of no small magnitude, and undoubtedly will procure for the South much beneficial publicity. The latter fact makes more regrettable the non-representation of Columbia in the edition, which carries informative matter regarding 53 other cities and towns, including eight in South Carolina—Anderson, Cheraw, Chester, Georgetown, Greenville, Marion, Mullins and Spartanburg—along with a carefully-planned statistical exhibit for South Carolina at large from the State Department of Agriculture, Commerce and Industries. Greenville employs two full pages, Anderson and Spartanburg using each a page. Houston leads all the cities in space, occupying nine full pages. Birmingham fills three pages. Macon, Asheville, Tampa and Tuscaloosa each use two pages. Columbia's conspicuous absence is further deplorable from the fact that few Southern cities could make at this time a more interesting showing as to general expansion, and particularly as to construction of hotels, apartment-houses and "skyscrapers." Another notable illustration of opportunity unimproved is seen in the non-representation of Charleston, more especially as the edition abounds in references to the bearing on Southern communities of the opening of the Trans-Isthmian Canal. Tampa, for example, devotes its two pages of space to exploitation of the alleged fact that it is a "thirty-million-dollar port" and "the nearest and most available port of any importance in the United States to the Panama Canal." Authoritative special articles, halftone reproductions of photographs and copious editorial expression make up 124 pages of the supplement, which is more comprehensive and elaborate than the imposing special edition issued February 22 of last year to commemorate the beginning by the MANUFACTURERS RECORD of its thirty-first year of Southern upbuilding. Richard H. Edmonds, editor, must take deep personal satisfaction in the progress of the South, for no individual has been more diligent, ingenious or efficient than he in prompting that process.

[Montgomery (Ala.) Advertiser.]

The Baltimore MANUFACTURERS RECORD is one of the good assets the South has. We say this because it has succeeded in proving that the "South is the Nation's Greatest Asset." The special edition of this wonderful industrial and agricultural promoter consists of 348 pages. It is filled with strong, meaty articles bearing on the development of this section and giving prophecy of the future. The volume is an inspiration to the Southerner who has confidence in the resources and enterprise of this part of the country. State by State, the MANUFACTURERS RECORD reviews the land for which it exists to boost. The cover design presents the whole story. The strength of this section is represented by an arch of which the keystone is cotton, the names of the following States appearing underneath the keystone: Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia. The products which make these States the "Nation's Greatest Asset" are marble, granite, sulphur, lumber, naval stores, water-power, clays, copper, salt, lead and zinc, iron and steel, rice, hay, sugar, livestock, vegetables, fruits, cottonseed, phosphate, coal, oil and gas—not counting the very character of the people and the climate conditions under which we live. The advantages and the stories of the progress of the South have not been exaggerated. The cold facts are sufficient to convince the investing and prospecting public that here is their opportunity. Again, and better still, the facts are sufficient to convince the young man, born and reared here, that in the South is his chance, too. The young man should remain here and give to his native State the benefit of his education, talent and energy. His rewards will be greater

here. His happiness more complete, for his achievements will be greater and more self-satisfying.

[Savannah (Ga.) Press.]

The Baltimore MANUFACTURERS RECORD recently got out a booklet bound and carefully compiled giving the progress of the South, a story which it never tires of telling. This last publication is really a great number, great in its preparation and plans, in its scope and spirit. It is published as part second of its regular issue. The specific title of the annex is "The South: The Nation's Greatest Asset." This is nothing new for the MANUFACTURERS RECORD, but the story this time is most strikingly and elaborately told. This should result in turning the thought of investors and prospective settlers to the resources of the South. The last publication is upon a broader plan, and is more interesting and valuable than anything yet attempted. In the light of the showing made there can be no challenge as to correctness of the claim that the South is "the nation's greatest asset." We are informed that this title was selected advisedly. Not only has the MANUFACTURERS RECORD shown what the South has done, but it has sketched the extent and the elements of future development. Accumulated wealth is one thing, possibilities in minerals, timber, soil, climate and strategic value are other things. Cotton is a natural monopoly of the South, which maintains the balance of trade in favor of this nation, but there are other things in the South, and part second of the MANUFACTURERS RECORD has handsomely shown them up.

[Holland in Wall Street Journal.]

Apparently with great patience and industry, the MANUFACTURERS RECORD of Baltimore has recently collected a vast amount of authoritative statistics which tell of the present-day prosperity in the South, and comparison is made of that prosperity with the condition of the South in 1880. These statistics have been shown to some of our business men today. They caused everyone who has examined them to say that there is nothing in the history of commercial development anywhere in the world that compares with that of the South in the last 30 years. They regard these statistics as of the highest political importance, using the word "political" in no partisan sense. The figures point to a vast change in the industrial and agricultural development of the entire United States. It is a change which will injure no section of this country, but instead will be of benefit to every section, since prosperity like that which the South is now enjoying must react favorably upon all parts of the country.

[Charlotte (N. C.) Observer.]

It is the most intelligent compilation of the South's resources and opportunities that has come under our observation, and as a reference work is of great value. It gives facts and figures as to resources and advantages to each of the Southern States in a shape to be easily grasped. Manifestly much time, labor and expense were involved in the collection and publication of this mass of information. It is one of the best pieces of work done in the way of a practical advertisement for the South. No doubt there will be many calls on the publisher's surplus supply.

[Baltimore American.]

It is doubtful if the South has ever been so splendidly or so intelligently interpreted as in the remarkable current issue of the MANUFACTURERS RECORD of Baltimore. Close to 500 pages it takes, which is probably a record size for any weekly publication in the country, and it would be hard to find a single page on which is not attractively and authoritatively presented something new about the South, facts of interest concerning conditions, information or importance to every branch of industry or trade, the whole constituting an amazing record of progress in a great and growing section aptly described by way of title "The South: The Nation's Greatest Asset."

[Huntsville (Ala.) Daily Times.]

The Daily Times is in receipt of "The South: The Nation's Greatest Asset," which is Part II of the regular weekly issue of the MANUFACTURERS RECORD, the able publication issued at Baltimore by Hon. Richard H. Edmonds, who is doing a magnificent work for the development of Southern interests. The special number embraces 348 pages, and contains special articles by leading authorities, statistical surveys of the South and its individual States, and editorial reviews of its resources and developments.

[Charlotte (N. C.) Evening Chronicle.]

Never has there been such a collection of reliable facts and figures and general information about the industrial South as is contained in "The South: The Nation's Greatest Asset" in the MANUFACTURERS RECORD of Baltimore. No other publication could have attempted such a gigantic task of compilation and have produced anything like so comprehensive and accurate review of the South's opportunities. The publication is truly a remarkable one, and will be preserved in business houses and by business men throughout the country.

[New Orleans Times-Democrat.]

Comparative statistical tables, prepared for each State reviewed, shows its "progress in production" during the 32-year period from 1880 to 1912. The edition is as handsome typographically as it is excellent and effective in its presentation of facts and figures regarding the South's present and future developments. Illustrated by hundreds of half-tone cuts, it contains, among other special features, a 10-page article upon the "Reclamation Potentialities of Louisiana."

[Newbern (N. C.) Daily Journal.]

It is astonishing in its scope and in the variety and completeness of its contents. The MANUFACTURERS RECORD has demonstrated to the satisfaction of most fair-minded people, we think, that the South is indeed the nation's greatest asset.

[Bluefield (W. Va.) Daily Telegraph.]

Is full of the most valuable data. In addition the pages are profusely illustrated with views of farms, factories, mining scenes, lumber and other industrial plants. The growth of the South is shown and the prospects for the future forecast. The whole shows an enterprise that is pleasing, and evidences a task that was enormous on the

part of the compilers. It should be in the hands of every man interested in the growth of his community.

[Charlotte (N. C.) *Evening Chronicle*.]

Charlotte is well advertised in the special Southern edition of the MANUFACTURERS RECORD of Baltimore this week, having an entire page devoted to the exploitation of the city under the heads "Industrial," "Residential," "Educational" and "Rural Environment." The Greater Charlotte Club button attracts the immediate attention of the reader of the advertising pages of the MANUFACTURERS RECORD.

[Baltimore *Evening Sun*.]

In addition to the usual editorial and advertising pages of the journal, there is an extra section of 348 pages devoted entirely to a comprehensive presentation of the resources and potentialities of the South. Excellent halftones illustrate the industrial energies of that section of the country. In all, the current number contains close to 500 pages, and constitutes a value guide to the activities of the section to which it is devoted.

[Maxton (N. C.) *Scottish Chief*.]

The MANUFACTURERS RECORD is the South's great asset in disseminating attractive information. Every week it is running over with valuable information. This week, in addition to its regular weekly issue, it has sent out a 348-page book entitled "The South: The Nation's Greatest Asset," which is chock full of information concerning the resources and development of the South.

[Baltimore *News*.]

Probably the largest issue of a weekly publication in the printing annals of the country is that of the MANUFACTURERS RECORD of this week. It is in two sections, and the pages number almost 500. The first section is made up of the usual class of news published in the weekly, and the second section deals with the resources and industrial advancement of the South.

[Gaffney (S. C.) *Ledger*.]

The MANUFACTURERS RECORD is a publication that has been of inestimable benefit to the South. In truth, it has done more to encourage the development of our latent resources than any other publication, but its issue of March 27 is so ponderous and magnificent, and does the South such a distinctive service, that all Southern people or those interested in the South must acknowledge the service with grateful hearts.

[Tampa (Fla.) *Morning Tribune*.]

The MANUFACTURERS RECORD has done a great work in compiling this number, which may be accepted without question as a reliable compendium of information about the South. The facts set forth in the edition substantiate the claim of the MANUFACTURERS RECORD that "The South is the Nation's Greatest Asset."

[Athens (Ga.) *Banner*.]

The great extra edition of the MANUFACTURERS RECORD, "The South: The Nation's Greatest Asset," is one of the really greatest pieces of newspaper enterprises that any periodical South has attempted.

[Knoxville (Tenn.) *Sentinel*.]

It has been prepared with skill and care, and is an invaluable repository of information about Southern development and resources. The MANUFACTURERS RECORD deserves great praise for this effort.

[Sallysburry (N. C.) *Post*.]

It is a big paper and a good one. Filled full of live facts about the South, this special edition of the MANUFACTURERS RECORD will carry a story of the growth and progress of the South to the outside world.

[Asheville (N. C.) *Gazette-News*.]

It is considered one of the handsomest and most inclusive issues of this trade weekly ever published. No phase of Southern industry or advancement is overlooked.

[Anderson (S. C.) *Daily Mail*.]

"The South is the Nation's Greatest Asset," and the MANUFACTURERS RECORD is one of the South's greatest assets.

[Florence (Ala.) *Times*.]

It is a revelation to all who have not kept up with the rapid march of events in our Southern country.

## Muscle Shoals Improvement.

### PLAN OF DEVELOPMENT WORKED OUT BY UNITED STATES ARMY ENGINEERS.

The board of engineer officers charged with the consideration of the improvement of the Muscle Shoals section of the Tennessee River for the purpose of navigation combined with water power, has prepared plans and estimates for the cost of the structures necessary for securing both results, and is now prepared to receive proposals from water-power companies.

The board was constituted by the War Department in pursuance of the following resolution of the Committee on Rivers and Harbors of the House of Representatives:

"Resolved by the Committee on Rivers and Harbors of the House of Representa-

tives, United States, That in lieu of the request made by committee resolution dated June 14, 1910, the Board of Engineers for Rivers and Harbors, created under section 3 of the river and harbor act approved June 13, 1902, be and is hereby requested to review all previous reports on the survey on that reach of the Tennessee River in the State of Alabama from Brown's Island to the railroad bridge below the city of Florence, Ala., and to submit as soon as practicable a revised report and estimate of the cost of the necessary locks and dams for the improvement of said river for navigation and the development of water-power in connection

therewith, considering not only the case of no co-operation on the part of the United States with any corporation or water-power company whatsoever, but also the cases of co-operation with any and all such companies; and to inquire into and report the probable amount and value of water-power that can be developed in this reach of the Tennessee River, under conditions of both minimum and maximum flow; and to take such steps as may be advisable, by advertising for bids or otherwise, to ascertain as definitely as practicable the fair value of the water-power which can be developed, submitting estimates separately for each dam and reporting also upon the probable cost of supplying foundations and other under-water facilities at each one of the locks and dams in connection therewith, whereby power can be later generated and developed; all these investigations and reports to be made with a view to providing for an immediate slack-water navigation of six feet, capable of later deepening to nine feet. The purpose of the foregoing resolution is:

"1. To allow, if desired, of an absolute elimination of any or all co-operation with any corporation in the work of improving the Muscle Shoals reach of the Tennessee River.

"2. If any private proposition for this improvement is considered by the board, to report on all which may be offered or secured, giving the estimate of the construction cost of each, having in view the preservation of all the water-power that can be developed in this reach of the Tennessee River.

"3. In estimating the water-power which can be developed at the dams of such slack-water navigation, to take into consideration the annual flow of the river, with its variation for the past 25 or 30 years if data can be had, so as to be able to report the minimum flow as well as the probable maximum flow of the river, and the probable amount of primary and secondary or other fluctuating power which can be developed."

In brief, the plans selected by the board involve the construction of three dams, located between Florence and Decatur, Ala. The first has an available head varying from 64.5 feet at low water to 45.5 feet at extreme high water; the second has a head varying from 35 feet to 29.5 feet, and the third has a head varying from 35 feet to 28.5 feet. The plans provide for a power-house at each dam, and propose to utilize for primary power 10,000 second feet, and for secondary power the next 10,000 second feet of discharge. These plans provide locks necessary for six-foot navigation between Florence, Ala., and Decatur, Ala., with provision for ultimate deepening to nine feet. The studies of the board indicate that the three dams combined will develop at the switchboard of the power-house approximately 105,000 horse-power electrical current for primary power, and about 95,000 horse-power for secondary power.

These facts are contained in an announcement by Major H. Burgess of the United States Engineer office at Nashville, Tenn., who adds:

"The board is now prepared to receive proposals from any parties who may desire to co-operate in this combined water-power and navigation development, in accordance with the resolution quoted above. Therefore, it is requested that any company desiring to make proposals on this power do so in writing in time to reach the United States Engineer office at Nashville, Tenn., not later than 11 A. M. June 24, 1913. Proposals are asked for on the plans prepared by the board, and on any modification of such plans, provided such modification secures equal facilities for

navigation with those provided in the plans of the board, and provides for structures with like factors of safety against destruction. Since the most important immediate requirements for navigation are the providing for six-foot navigable depth between the Florence railroad bridge and Lock 9, Muscle Shoals Canal, and between Lock 1, Muscle Shoals Canal, and Decatur, Ala., all plans submitted must provide for an immediate development of the improvement sufficient to give six-foot depth in the two reaches named. The intermediate reach has at the present a minimum navigable depth of five feet, and therefore does not call for an immediate improvement for purposes of navigation. Plans submitted, however, must provide for the ultimate improvement of the entire section of the river, both for navigation and power purposes.

"The proposals should state how much money the bidder will pay to the United States for the power franchise at each dam independently, and for the power franchise for all three dams as a whole, said payment to the United States to be used toward the construction of the locks, dams and substructures of the power-houses, and in payment for sites, easements, etc., it being understood that all other costs for construction and otherwise for the power stations and their equipment shall be paid directly by the lessee, and it being further understood that any franchise that may be granted shall be subject to the following conditions:

"(a) One hundred year lease of the power; the United States to be the owner of locks, dams, substructures of the power-houses and lands from the beginning; the lessee to own the power-houses, the hydraulic and electric equipment, transmission lines, substations, etc. At the end of the 100-year lease the power-houses shall become the property of the United States, and the hydro-electric machinery, transmission lines and movable property connected therewith shall remain the property of the lessee.

"(b) The flow of the river to be under control of the United States, so that the navigation in the open river below the dam be not interfered with.

"(c) Lessee to furnish free electric current sufficient to operate and light the locks.

"(d) All power stations and their equipment, appurtenances, etc., to be maintained by the lessee in first-class condition during the period of the lease.

"The plans prepared by the board and the details of the hydraulic studies for power are on file in the United States Engineer office at Nashville, Tenn., and these may be examined by any company desiring to make an offer for the power. The assistance of the district officer will be extended to the engineers of any company who desires to make a further study of the power possibilities on this section of the river. Blueprints and copies of other records will be furnished to the engineers of such companies upon payment of the actual cost price for the prints, which is nominal.

"Upon the day the proposals are received by the board, representatives of the companies offering proposals are invited to be present for the purpose of explaining and discussing the proposals received. All proposals and other communications should be in writing.

"It may be noted from the resolution above that the board cannot accept the offers invited in this circular, but the board is prepared to recommend to Congress that the proposal which is considered advantageous to the Government be accepted."



# Resuming in Central West.

## MANUFACTURERS PROMPTLY GETTING THEIR PLANTS INTO OPERATION.

From a number of manufacturers in the flood region of the Central West the MANUFACTURERS RECORD has letters announcing that they are prepared to do business.

The French Oil Mill Machinery Co. of Piqua, O., writes:

"Words cannot describe the great loss of life and property which the floods have caused. We wish to advise you, however, that this company was fortunate in being located on the high lands in Piqua, and was not affected or damaged at all by the floods. We have been inconvenienced during the past week, principally due to being cut off from communication with the world, and transportation facilities have been very bad. These troubles, however, are now being rapidly remedied. We are, therefore, in position to give our customers the best of service and as prompt delivery as ever."

The Temco Electric Motor Co. of Leipsie, O., writing under date of March 29, says:

"This company escaped with very little damage. However, we are most grateful to you for your offer, and trust that others throughout this State will fully appreciate your kindness."

The American Machine Co., manufacturers of passenger and freight elevators, Louisville, Ky., writes:

"As far as this company is individually concerned we have no complaint to make. There is no possibility of the present flood damaging our plant, and the only damage we have suffered was to have our stack blown down about a week ago. The citizens of our community can be thankful indeed in escaping the recent storm, and while the high water will do a great deal of damage to some of our manufacturing plants and dwellings, the people living in the flooded districts were fortunate, however, in being able to move out before the water surrounded their homes."

The Western Gas Construction Co. of Fort Wayne, Ind., writes:

"Our plant, being situated on high grounds, did not suffer directly from the floods here, although indirectly we have been put to very considerable inconvenience and loss, largely due to the fact that the city water supply has been cut off for the past week. Of course, a large number of our employees suffered personal loss at their homes, and the result has been that our force has been considerably demoralized for the time being. We trust to be able to resume operations in full the early part of next week, and can consider ourselves especially fortunate in view of the tremendous losses suffered by many of our most prominent manufacturing plants."

The Chase Foundry & Manufacturing Co. of Columbus, O., writes:

"Fortunately we were located outside of the flooded district, and were, therefore, not affected by this condition, and are pleased to say that we are in position to make our usual prompt deliveries, and also have assurances from railroads leading into Columbus that they will be in position to handle freight within the next 48 hours, and we trust our many friends and customers will remember us with their specifications."

The Marion-Osgood Company, Marion, O., writes:

"Ohio has had the worst calamity in its history. In the aggregate thousands of

lives have been lost and many millions of dollars' worth of property. Great numbers of people who were in prosperous circumstances and others who were well-to-do have lost everything they had. It is hard to tell at this time how far-reaching will be the results of this disaster. Our plant was down for a few days, but we got started again yesterday, and in a very few days will be running normally. Our loss was quite small. This city was very fortunate; we had no loss of life and a moderate loss of property. We shall read with interest 'A Call to the South' when we receive it. We have received notices from different parties that they were sending the same to us."

The Jeffrey Manufacturing Co. of Columbus, O., after giving in detail many facts regarding the disastrous results of the flood in that city, says:

"Our plant and nearly all of the houses of our employees escaped the flood, and while we are operating every day with reduced force on account of some of our employees searching for relatives and friends, while others are helping in the relief work, we are pushing orders, and expect express and freight shipments to be resumed by April 1. There has been unusual demand for authentic news, and even the newspapers have run short of white paper. The cleaning up and reconstruction work over the entire Ohio flood district will be conducted on a definite and organized basis. The work being done at the present time is along practical lines, and as far as authorities are able to learn none are now suffering for food and shelter. We have suffered no material loss in our own establishment. The majority of our employees who are aiding in relief work have returned this morning to take up their regular duties, and all of our departments and shops are working full time and a great many departments will be pressed for overtime, nights and Sundays in emergencies, to catch up. We expect train service, mail, express and freight shipments to resume their usual schedules within a few days. Where the bridges are gone temporary arrangements are being made to facilitate handling of passengers, mail, express and freight. Hundreds of gangs of laborers and workmen of all kinds have gone to work to repair roadways, clear up debris, replace lines, etc. We wish to extend to our numerous customers and friends our sincere thanks for their patience and indulgences in the event of any inconveniences caused by the delays in mail or telegraph or train shipments."

The Weir Frog Co., Cincinnati, O., writes:

"We are located some 300 feet above high water in Cincinnati, and continued our operations through the recent floods, inconvenienced only as the transportation companies were affected."

### HOUSTON'S RESPONSE PROMPT.

General Co-operation in the City for Relief of Ohio Valley Sufferers.

[Special Dispatch to Manufacturers Record.]

Houston, Tex., March 31.

Splendidly has Houston responded to the call for help from the flood sufferers of Ohio and Indiana. Ten thousand dollars have been raised by the warm-hearted people of this city of not more than 140,000 inhabitants, and more is in sight. The Houston Post started the relief fund

Wednesday evening privately and by telephone before any public appeal was printed by that paper, and \$1000 were raised the first day. By Friday evening more than \$6000 had been received by the Post, and the money has been telegraphed in proportion of two to Ohio and one to Indiana. Friday night a monster benefit performance was given at the municipally-owned Auditorium. Members of every theatrical company in the city participated without charge of any kind, and 7000 men, women and children attended. A free will offering was made as the audience passed into the Auditorium, and more than \$2000 was thus contributed.

The benefit performance at the Auditorium was remarkable in many ways. It was a genuinely spontaneous exhibition of the universal feeling of sympathy and desire to be helpful. There was no admission price, and the thousands of nickels and some pennies among the aggregate \$2000 of voluntary contributions testified to the fact that a number of those who attended were possessed of small means, but were anxious to contribute their mite to the general fund. It is a remarkable fact that no charge was made for anything in connection with the benefit performance—no charge for the Auditorium, for the band, for the lights, for the services of stage hands, or for the actors who participated. There will be benefit performances by several of the local theaters later on, and the picture shows are proposing to devote their receipts on a special day to the flood fund.

The case of the child who brought its little savings bank and handed it over intact is a very touching and eloquent expression of the sentiment which pervades this entire community.

An interesting incident in connection with the general desire to be helpful is the case of the hot-waffle man who carried a placard on his wagon through the city announcing that the proceeds of his day's sales would be devoted to the flood fund, and he turned in \$25.

ALBERT PHENIS.

### LOOKING TO THE SOUTH.

England's Foremost Coal Operator Planning to Develop Properties.

The recent visit of D. A. Thomas of Cardiff, Wales, regarded as the foremost coal operator of Great Britain, to West Virginia and Kentucky with a view to investigating coal lands, having in mind the purchase of large properties and their development for the exportation of coal, and the probability that he will shortly visit this country again to continue his investigation, lends interest to some facts in regard to the extent of his operation which recently appeared in a lengthy article in the Liverpool and London Journal of Commerce. Discussing the magnitude of the coal operations controlled by Mr. Thomas, that paper said:

"To a greater degree than that of any other country, the manufacturing and commercial fabric of Great Britain rests on a coal foundation. There is no industry whose welfare is more vital to the future prosperity of the United Kingdom, and there was never a period in its annals when the necessity was greater than it is today, that that industry should receive the strenuous aid of all that enlightened enterprise can give it."

"Since the day when we established a world-wide supremacy as foreign traders, great changes have taken place. In the Far East the development of native mineral resources has practically deprived us of most of our markets; in Europe the competition of Germany and other countries is increasing in every direction, and

in America the United States have not only long outstripped us in the production of coal, but are now beginning to make their rivalry felt in neutral markets."

"Those deeply interested in the coal trade of the United Kingdom are alive to its limitations as well as its possibilities, and determined to apply their skill and experience on a world-wide scale. No man in Great Britain today typifies this new attitude toward coal trade problems in more marked degree than does Mr. D. A. Thomas. He has acquired a power far greater than that wielded by any other colliery owner in the kingdom."

"The collieries with which he is identified as managing director, director or principal shareholder produce between 11,000,000 and 12,000,000 tons per annum, and the railway, dock, iron and steel concerns with which he is dominantly associated employ over 50,000 men. This is the more remarkable as Mr. Thomas abandoned politics to give his entire time to business only six years ago after representing the largest mining constituency in the kingdom in Parliament for over 20 years."

"There he supported the eight-hour workday long before it became a question of practical politics; issued in 1896 a pamphlet in which he outlined a scheme for regulation of output which, had it been adopted, would probably have prevented the disastrous five months' strike of 1898. He has always taken an advanced position with regard to treatment of labor, and the miners of Wales will follow his lead when they will not listen to their own labor leaders. No captain of industry ever knew better how to encourage the inherent capacity of those with whom he has to deal. His advent is one of the great potent facts of the day in the industrial and commercial world."

The plans of Mr. Thomas, as understood by the MANUFACTURERS RECORD, if carried out, will involve the purchase of large coal properties in the South, their development on a very large scale and the shipment of coal through Southern ports in order to supply from this country some of the trade in South America and elsewhere which he now supplies from his operations in Great Britain.

### MERGE LOUISVILLE PROPERTIES.

\$18,000,000 Company Will Combine Six Gas and Electric Systems.

The City Council of Louisville has passed and the Mayor has approved the ordinances granting a new 20-year natural-gas franchise and authorizing a merger of the four electric and two gas companies now operating in Louisville, Ky. After the necessary formalities the Louisville Gas & Electric Co. will consolidate these properties and develop additional business under the management of H. M. Byllesby & Co. of Chicago. This new corporation was chartered in February with an authorized capital of \$18,000,000, and will serve a population of approximately 325,000 in and around Louisville. It is understood it will combine the Louisville Gas Co., the Louisville Lighting Co., the George H. Fetter Lighting & Heating Co., the Standard Gas & Electric Co., and the Mississippi Valley Gas & Electric Co. Economies are now being planned under the new ownership for the purpose of decreasing operating expenses and increasing gross earnings with the expectation of largely adding to the surplus earned last year.

According to the National census bureau 4,540,905 tons of cottonseed of the crop of 1912 have been crushed, in which process 605,704 bales of linters have been obtained.

## THE TARIFF ON WIRE.

### Protest by a Southern Manufacturer Against Any Reduction.

As trustee in bankruptcy operating the properties of the Southern Iron & Steel Co., James Bowron of Birmingham, Ala., has filed with the Ways and Means Committee of the House of Representatives a brief protesting against any reduction in the duties on wire and wire products, in which he says:

"I respectfully submit that the markets in which the wire products so produced must be disposed of to the best advantage lie in what are known as the Gulf States or South Atlantic States, ranging from the Carolinas to Texas, inclusive. We are not able to market our products in the North, because of the greater distance of the consuming centers and the freights upon our merchandise, which are prohibitive.

"I respectfully point out to the committee that under the provisions of the Underwood bill, H. R. 18,642, an unfair discrimination is proposed to be made against our business in the following respect, namely:

"That wire, both plain and barbed, and cotton ties would be admitted free of duty, whilst we would still be subject to the payment of duties on chrome, ferro-manganese, ferro-silicon, ferro-phosphorus, lead, spelter, sulphuric acid, nitric acid and fluor-spar, all of which we purchase at present, and also upon pig-iron, steel ingots and billets if we should attempt to import these instead of producing them.

"I further respectfully submit to the committee that the necessity for protection must be governed, not by the cost of production at the works, but by the cost laid down at the point of consumption. It costs 56 cents per hundred pounds, or \$11.20 per net ton, to ship wire products from Alabama to Texas, the largest consuming State in the Union. A removal of the duty upon wire and wire products would open that market and other Gulf and South Atlantic States, so far inland from the cotton ports as the gradually accumulating railroad freight rates would permit, to the competition of English and German steel wire and wire products and cotton ties, which can be shipped from Liverpool, Manchester, Hamburg or Bremen at mere nominal or ballasting freight rates in steamers coming otherwise empty or in water ballast to such South Atlantic or Gulf States for the purpose of loading cotton to the European markets.

"I further respectfully submit to the committee that such freight rates might not exceed from \$3 to \$4 per ton from Hamburg or Bremen to Galveston, and with the existence—with the tolerance of the German Government—of an export syndicate paying a bonus on material shipped abroad would virtually pay this ballasting or nominal freight rate and permit such German products to be placed ex ship Galveston at the f. o. b. Hamburg prices, which are generally about the same as those which prevail in Pittsburgh, Pa.

"Steel is manufactured at the Southern Iron & Steel Co.'s works into billets, which are rolled into cotton ties by the Connors-Weyman Steel Co. at Helena, Ala. The only cotton ties manufactured in the South are produced at Helena, Ala., and at Atlanta, Ga. If, as the result of placing these upon the free list, these two producers should be driven out of the business, Southern consumers might have to pay heavier prices at the will of the foreign producer, or in the absence thereof must pay Pittsburgh prices plus the freight from the distant sources of production.

"Nearly 5000 workmen, together with their families, are at present drawing their subsistence through the property under my management, which is today under favorable conditions of business earning a small profit, not more than 2½ to 3 per cent. per annum upon the estimated value of the property involved. I respectfully urge the committee not to take any step which will cause these men to be thrown out of employment and wipe out the values represented by the investment.

"I respectfully submit to the committee that to enclose a 10-acre field with a 25-inch woven-wire fence containing seven wires, with stays six inches apart, and surmounted by three strands of barbed wire heavily barbed with four-point hog barbs would cost \$50.83, or \$5.08 per acre. This wire, being all heavily galvanized, should last 10 years, but requiring renewal involving an average expense of 51 cents per acre per annum. On the assumption that the entire present duty should be removed and that the foreign producers would not take advantage of the Southern producers being driven out of the business and would give the consumers the full advantage of a reduction in price equivalent to the entire duty, this would amount to approximately 10 cents per acre per annum, which I submit to the committee is the maximum amount paid by the farmer at present as an insurance premium for the maintenance of producers at home of his requirements, carrying a large stock ready for immediate shipment at an hour's notice, and that he would not be benefited even if he could buy more cheaply and must place his orders with distant producers who would not be so familiar with his requirements."

### Sugar Tariff and Louisiana Interests.

[Special Cor. Manufacturers Record.]

New Orleans, La., March 17.

The sugar industry of Louisiana represents more than \$100,000,000 invested in lands, factories, buildings, implements, mules, plantation railroads and equipments; \$25,000,000 annual expenditures for labor, supplies, machinery, implements, mules, clothing, etc., and its \$35,000,000 in annual crop of sugar, syrup and molasses. In connection with tariff revision a resume of statements made and conclusions reached by cane growers and others who have given the situation greatest consideration based on any large reduction from present tariff figures follows.

There are 1,000,000 acres of land in the plantations of Louisiana sugar growers. Readjustment in the use of so large an acreage would take time, much of it; and meanwhile the inevitable forced sales of a large portion of these lands would unsettle values, halt the great movement now under way in the drainage of Louisiana's 5,000,000 acres of wet lands; compel some 50,000 laborers to seek new employment; bring distress to bankers, merchants, machinery and supply dealers in and out of Louisiana, and at the same time cut off a yearly revenue of \$50,000,000 to \$60,000,000 the Government now receives in duties on sugar, force the payment of \$100,000,000 a year or more to foreign sugar growers, and put the American consumer at the mercy of American refiners and foreign sugar-producing countries. The duty now amounts to 1.685 cents a pound. The per capita consumption in the United States averages around 80 pounds a year. If the consumer got the benefit of the tariff reduction, which he never yet has done, he would save just \$1.34 a year. What would happen, however, is this.

The sugar refineries would be able to buy foreign raw sugars at 2½ cents, if

present conditions abroad were to be continued, and would sell it at whatever price they pleased, having a monopoly of the situation. The fact that the refineries spent \$12,000 on an advertising propaganda in behalf of free sugar prior to the last session of Congress indicates their expectation to be benefited by having the duty taken off. With no home-grown sugar—for free sugar would mean the elimination of the beet-sugar industry along with the cane—there would be no check on the prices to be fixed. In 1911 there was a shortage of sugar in Europe amounting to more than 1,000,000 tons. The United States made 540,000 tons of beet sugar that year, and Louisiana produced 300,000 tons of cane sugar. Had it not been for this crop of 840,000 tons, which comes into market earlier than the Cuban cane, the price to the public for the three months of October, November and December, prior to the receipt of Cuban sugars, might have been double the 6½ cents that prevailed. As the consumption of sugar in the United States is about 3,500,000 tons a year, the amount consumed during the three months named was around 900,000 tons. An advance of five cents a pound would have amounted to an additional cost of about \$90,000,000, which could not have been saved to the people had there been no American sugar grown.

In some recent hearings before the Ways and Means Committee it cropped out in questions by Eastern members that the sugar industry was considered not even an economically legitimate one, and the opinion is not infrequently expressed that the country would be better off were Louisiana's plantations cut up into small farm tracts.

The vicissitudes of the sugar industry, beet and cane, are great, and the business a precarious one. Profits are sometimes big, but losses also may be large and likewise frequent.

Louisiana cane sugar, unrefined, costs 3.75 cents per pound to produce. In Java it is produced for 1.50 cents per pound; in the Philippines for 1.75 cents per pound; in Cuba for 2 cents per pound.

Beet sugar manufactured in the United States costs 3.54 cents per pound to produce. In Germany beet sugar can be manufactured for 2.42 cents per pound.

If sugar is placed on the free list, foreign raw sugars can be delivered in New Orleans and New York for 1 cent to 1½ cents a pound less than it costs to produce them in this country.

It is regarded as altogether probable that through the proposed Louisiana Cane Sugar Co. and through the ingenuity of individuals a considerable reduction in the cost of production can be effected, but if the industry is to live, tariff reductions must be gradual, not all at one time. Instead, therefore, of destroying the industry of today, it is urged that it be encouraged and extended until all the sugar consumed in the United States is grown in this country. There is land in plenty in Louisiana, when all the wet lands are drained, for present and future sugar plantations, and in Florida and Texas a material development can occur. In Louisiana now there is an increasing tendency to diversification, and with the extension of the central factory plan, contemplated in the plan of the Louisiana Cane Sugar Co., there will be more and more of the small farmer class raising a patch of cane as a money crop, along with general farm crops, stock, truck and fruit.

More beet sugar is raised than cane, and the extension of that industry is a matter of great importance to many States; but the far-reaching benefits of the Louisiana cane industry alone are

indicated in the following figures compiled by sugar men of Louisiana:

Land, 1,000,000 acres, with buildings, field improvements.....	\$70,000,000
Factories .....	35,000,000
Mules .....	10,000,000
Implements .....	2,000,000
Plantation, railroad and equipment	2,000,000
Factory labor, including \$200,000	
salaried officers and clerks.....	2,500,000
Factory upkeep and repairs.....	1,250,000
Factory supplies.....	700,000
Fuel, oil and coal.....	1,000,000
Factory's taxes and insurance.....	525,000
Freight on cane to factory.....	1,000,000
Freight on factory products after	
manufacture .....	1,500,000
Field labor, including \$500,000 for	
salaried officers and clerks.....	12,000,000
Annual renewal of mules.....	1,000,000
Peas and commercial fertilizers.....	1,250,000
Feed .....	1,000,000
Land taxes and insurance on build-	
ings .....	750,000
Lumber, building materials, hard-	
ware, implements renewed annu-	
ally, etc.....	1,000,000
Total.....	\$144,475,000

There are 30,000 laborers continuously employed on the plantations every day throughout the year, and extra laborers to the number also of 30,000 employed during the 70 or 75 days of harvesting. With the exception of a few Italians, all are citizens of the United States. The wages carried on the payrolls of the sugar industry here total about \$15,000,000 a year. This important sum is distributed throughout the whole of the United States, both directly and through the merchants of New Orleans.

ALBERT PHENIX.

### Improvements at Athens, Ga.

Chamber of Commerce,

Athens, Ga., March 28.

#### Editor Manufacturers Record:

A bond election calling for \$100,000 for schools and \$75,000 for street improvement was carried here on March 25, the vote being as follows: Schools—for bonds, \$53; against bonds, 78; streets—for bonds, \$67; against bonds, 69.

There are being constructed in Athens a nine-story office building, a \$150,000 courthouse, a \$50,000 Y. W. C. A. building, a Catholic church, a Baptist church, as well as some 14 residences, ranging from \$2500 to \$20,000 in cost. Contracts will be let shortly for a \$150,000 Y. M. C. A. building, and also for a three-story and basement block.

C. C. CALLAWAY, Secretary.

### Canning and Bottling.

Board of Trade,

Waynesboro, Va., March 27.

#### Editor Manufacturers Record:

In this section new enterprises are coming into being. Among others is the cannery, apple butter and bottling plant which the Rose Cliff Fruit Farm, Inc., is building. They are going to can tomatoes raised by themselves on land they are developing on the slope of the Blue Ridge. To widen their cider market, they are bottling that commodity, and to find a better outlet for an increased quantity of apples they are putting up apple butter in glass and tin.

H. M. MAGIE, Secretary.

### Southern Agricultural Commissioners

The Association of Commissioners of Agriculture of the Southern States completed organization last week at New Orleans by electing W. A. Graham of North Carolina president, R. F. Kolb of Alabama vice-president, and J. W. Newman of Kentucky secretary-treasurer.

### Big Sale of Cement.

Two hundred thousand barrels of Old Dominion Portland cement have been sold by Wm. G. Hartranft Cement Co. of Philadelphia, selling agent of the company, to the Hardaway Contracting Co. for use in constructing the big dam at Whitney, N. C.



# For Public Buildings in the South.

The raising of the question as to the validity of the public buildings appropriation act of the last session of the Sixty-second Congress is likely to increase the interest in the provisions of that act. It carried authorization of contracts looking to the ultimate expenditure of \$39,892,850 of which \$11,200,850 are for communities in the 16 Southern States, as shown in the following table:

States.	Amounts.
Alabama.....	\$1,423,000
Arkansas.....	400,000
Florida.....	599,570
Georgia.....	521,750
Kentucky.....	520,500
Louisiana.....	221,000
Maryland.....	440,000
Mississippi.....	234,253
Missouri.....	940,050
North Carolina.....	716,000
Oklahoma.....	897,500
South Carolina.....	477,500
Tennessee.....	885,300
Texas.....	1,838,500
Virginia.....	608,500
West Virginia.....	477,500
Total.....	\$11,200,850
United States.....	\$39,892,850

The act authorizes the Secretary of the Treasury to enter into contracts for the completion of certain buildings within increased limits of cost; for the enlargement, extension, remodeling, rebuilding, reconstruction or improvement of buildings already erected; for the erection and completion of buildings upon sites already owned or authorized to be acquired by the Government; for the acquisition of sites and the beginning of construction, and for the acquisition of sites. More than 225 localities in the South are affected in the several classes of authorized contracts, as follows:

Contracts for the completion of buildings within increased limits of cost:

<b>Alabama.</b>	
Mobile, postoffice.....	\$75,000
Gadsden, postoffice, courthouse.....	8,000
Opelika, postoffice, courthouse.....	50,000
<b>Florida.</b>	
Live Oak.....	\$15,000
St. Petersburg, postoffice.....	25,000
<b>Georgia.</b>	
Carrollton, postoffice.....	\$7,500
Dublin, postoffice.....	8,000
Elberton, postoffice.....	12,500
Atlanta, postoffice, courthouse.....	22,500
Cedartown, postoffice.....	5,000
Cartersville, postoffice.....	6,250
<b>Kentucky.</b>	
Hopkinsville, postoffice.....	\$20,000
Middleboro, postoffice.....	25,000
Georgetown, postoffice.....	30,000
<b>Maryland.</b>	
Baltimore, immigrant station.....	\$150,000
<b>Missouri.</b>	
Chillicothe, postoffice, courthouse.....	\$65,000
<b>Mississippi.</b>	
Tupelo, postoffice.....	\$10,000
Laurel, postoffice.....	20,000
Clarksdale, postoffice, courthouse.....	55,750
Corinth, postoffice.....	3,500
<b>North Carolina.</b>	
Gastonia, postoffice.....	\$20,000
Kinston, postoffice.....	20,000
Tarboro, postoffice.....	15,000
Lumberton, postoffice.....	5,000
Rocky Mount, postoffice.....	16,000
Wilmington.....	300,000
<b>Oklahoma.</b>	
Oklahoma City, postoffice, courthouse.....	\$250,000
Tulsa, postoffice, courthouse.....	175,000
<b>Tennessee.</b>	
Shelbyville, postoffice.....	\$5,000
Winchester, postoffice.....	2,300
<b>Texas.</b>	
Corpus Christi, postoffice, courthouse.....	\$70,000
Galveston, courthouse, appraiser's store, etc.....	40,000
Cuero, postoffice.....	20,000
Hillsboro, postoffice.....	10,000
Sherman, postoffice, courthouse.....	5,000

## Virginia.

Lynchburg, postoffice, courthouse.... \$25,000

## West Virginia.

Moundsville, postoffice..... \$25,000  
Sistersville, postoffice..... 10,000

Contracts for the enlargement, extension, remodeling, rebuilding, reconstruction or improvement of buildings:

## Kentucky.

Winchester, postoffice..... \$30,000

## Louisiana.

Alexandria, postoffice, courthouse.... \$65,000

## Maryland.

Hagerstown, postoffice..... \$30,000

## Missouri.

Kansas City, postoffice, courthouse.... \$150,000  
Kirksville, postoffice..... 40,000  
St. Louis, postoffice..... 47,500  
Moberly, postoffice..... 35,000

## Tennessee.

Chattanooga, postoffice, courthouse.... \$55,000  
Nashville, postoffice, custom-house.... 400,000

## Virginia.

Danville, postoffice, courthouse..... \$2,500

## West Virginia.

Martinsburg, postoffice..... \$30,000  
Huntington, postoffice..... 225,000

Contracts for erection and completion of buildings upon ground already owned or authorized to be acquired:

## Alabama.

Jasper, postoffice, courthouse..... \$100,000

## Arkansas.

Arkadelphia, postoffice..... \$55,000  
Fordyce, postoffice..... 50,000  
Mena, postoffice..... 50,000

## Florida.

Bartow, postoffice..... \$30,000  
DeLand, postoffice..... 60,000  
Orlando, postoffice..... 60,000

## Georgia.

Barnesville, postoffice..... \$50,000  
Statesboro, postoffice..... 50,000

## Kentucky.

Ashland, postoffice..... \$100,000  
Lancaster, postoffice..... 55,000  
Shelbyville, postoffice..... 50,000

## Louisiana.

Minden, postoffice..... \$50,000  
Hammond, postoffice..... 50,000

## Maryland.

Frederick, postoffice..... \$90,000

## Mississippi.

McComb, postoffice..... \$50,000  
Holly Springs, postoffice..... 45,000

## Missouri.

Bonne Terre, postoffice..... \$50,000  
St. Louis, subtreasury..... 200,000

## North Carolina.

Burlington, postoffice..... \$65,000  
Waynesville, postoffice..... 65,000  
Shelby, postoffice..... 55,000

## South Carolina.

Columbia, postoffice..... \$285,000  
Marion, postoffice..... 50,000

## Tennessee.

Jellico, postoffice..... \$70,000  
Maryville, postoffice..... 60,000  
Martin, postoffice..... 50,000  
Humboldt, postoffice..... 50,000  
Memphis, postoffice..... 120,000

## Texas.

Bay City, postoffice..... \$90,000  
Stamford, postoffice..... 50,000  
Navasota, postoffice..... 50,000  
Belton, postoffice..... 55,000  
New Braunfels, postoffice..... 50,000  
Boeville, postoffice..... 50,000  
Yoakum, postoffice..... 65,000  
El Paso, postoffice..... 300,000  
Nacogdoches, postoffice..... 55,000  
Brenham, postoffice..... 60,000

## Virginia.

Warrenton, postoffice..... \$50,000  
Franklin, postoffice..... 45,000  
Pulaski, postoffice..... 50,000  
South Boston, postoffice..... 50,000  
Waynesboro, postoffice..... 52,500

## West Virginia.

Williamson, postoffice..... \$50,000  
Buckhannon, postoffice..... 60,000

Contracts for the acquisition of sites and for the erection of buildings:

## Alabama.

Birmingham, postoffice, courthouse.... \$1,000,000  
Decatur, postoffice..... 65,000  
Andalusia, postoffice..... 50,000  
Lanett, postoffice..... 50,000

## Arkansas.

Marianna, postoffice..... \$50,000  
Prescott, postoffice..... 50,000  
Russellville, postoffice..... 50,000  
Rogers, postoffice..... 70,000

## Florida.

Apalachicola, postoffice..... \$75,000  
Marianna, postoffice..... 70,000  
Sanford, postoffice..... 70,000  
Lakeland, postoffice..... 75,000

## Georgia.

Fitzgerald, postoffice..... \$75,000  
Douglas, postoffice..... 55,000  
Washington, postoffice..... 55,000  
Moultrie, postoffice..... 65,000  
Lawson, postoffice..... 60,000

## Kentucky.

Glasgow, postoffice..... \$60,000  
Marion, postoffice..... 70,000

## Louisiana.

Thibodaux, postoffice..... \$50,000

## Maryland.

Cambridge, postoffice..... \$80,000  
Salisbury, postoffice..... 90,000

## Mississippi.

Water Valley, postoffice..... \$50,000

## Missouri.

Harrisonville, postoffice..... \$52,500  
Liberty, postoffice..... 60,000  
Washington, postoffice..... 60,000  
Butler, postoffice..... 60,000  
Fayette, postoffice..... 55,000

## North Carolina.

Chapel Hill, postoffice..... \$60,000  
Thomasville, postoffice..... 55,000

## Oklahoma.

Altus, postoffice..... \$82,000  
Woodward, postoffice..... 110,000  
Shawnee, postoffice..... 125,000  
Durant, postoffice..... 80,000  
Chandler, postoffice..... 55,000

## South Carolina.

Beaufort, postoffice..... \$50,000  
Clinton, postoffice..... 55,000  
Lancaster, postoffice..... 50,000

## Tennessee.

Franklin, postoffice..... \$55,000  
Tullahoma, postoffice..... 50,000  
Athens, postoffice..... 50,000  
Callatin, postoffice..... 50,000

## Texas.

Denton, postoffice..... \$75,000  
Pittsburg, postoffice..... 55,000  
Gilmer, postoffice..... 55,000  
Mt. Pleasant, postoffice..... 55,000  
Honey Grove, postoffice..... 50,000  
Orange, postoffice..... 60,000  
Commerce, postoffice..... 50,000  
Mt. Vernon, postoffice..... 50,000  
Cameron, postoffice..... 55,000  
Comanche, postoffice..... 50,000

## Virginia.

Farmville, postoffice..... \$60,000  
Norton, postoffice..... 75,000  
Salem, postoffice..... 65,000  
Front Royal, postoffice..... 50,000  
Leesburg, postoffice..... 55,000

## West Virginia.

Charles Town, postoffice..... \$75,000

Contracts for the acquisition of sites for public buildings:

## Alabama.

Union Springs, postoffice..... \$5,000  
Albertville, postoffice..... 5,000  
Attalla, postoffice..... 5,000  
Greenville, postoffice..... 5,000  
Sylacauga, postoffice..... 5,000

## Arkansas.

Conway, postoffice..... \$5,000  
Stuttgart, postoffice..... 5,000  
Eldorado, postoffice..... 5,000  
Forrest City, postoffice..... 5,000  
Brinkley, postoffice..... 5,000

## Florida.

DeFuniak Springs, postoffice..... \$6,000  
Key West, postoffice, courthouse, custom-house..... 80,000  
Kissimmee, postoffice..... 6,000  
Lake City, postoffice..... 7,500

## Georgia.

Toccoa, postoffice..... \$5,000  
Canton, postoffice..... 5,000  
Rossville, postoffice..... 5,000  
Sandersville, postoffice..... 5,000  
Forsyth, postoffice..... 5,000  
Thomson, postoffice..... 5,000

Waynesboro, postoffice..... 5,000  
Monroe, postoffice..... 5,000  
Madison, postoffice..... 5,000  
Eatonton, postoffice..... 6,000

## Kentucky.

Madisonville, postoffice..... \$10,000  
Barbourville, postoffice..... 5,000  
Central City, postoffice..... 7,500  
Harrodsburg, postoffice..... 10,000  
Eminence, postoffice..... 8,000  
Paintsville, postoffice..... 5,000  
Pikeville, postoffice, courthouse..... 7,500  
Prestonsburg, postoffice..... 5,000  
Murray, postoffice..... 5,000  
Hodgesville, postoffice..... 5,000  
Falmouth, postoffice..... 5,000  
Elizabethtown, postoffice..... 7,500

## Louisiana.

Morgan City, postoffice..... \$6,000

## Missouri.

Caruthersville, postoffice..... \$5,000  
Centralia, postoffice..... 7,500  
Farmingington, postoffice..... 5,000  
Sikeston, postoffice..... 7,500  
West Plains, postoffice..... 7,500  
Unionville, postoffice..... 7,500  
Mountain Grove, postoffice..... 7,500  
L'Annon, postoffice..... 7,500  
Lamar, postoffice..... 10,000

## North Carolina.

Rutherfordton, postoffice..... \$5,000  
Mt. Olive, postoffice..... 5,000  
Edenton, postoffice..... 7,500  
Mt. Airy, postoffice..... 5,000  
Lenoir, postoffice..... 8,000  
Wadesboro, postoffice..... 5,000  
Rockingham, postoffice..... 5,000

## Oklahoma.

Frederick, postoffice..... \$10,000  
Hobart, postoffice..... 10,000

## South Carolina.

Ellen, postoffice..... \$7,500

## Tennessee.

Huntingdon, postoffice..... \$2,500  
Elizabethton, postoffice..... 2,500  
Rogersville, postoffice..... 3,000  
Memphis, postoffice..... 40,000

## Texas.

Crockett, postoffice..... \$6,000  
Memphis, postoffice..... 7,500  
Sweetwater, postoffice..... 7,500  
Sequin, postoffice..... 7,500  
Taylor, postoffice..... 5,000  
Georgetown, postoffice..... 5,000  
Coleman, postoffice..... 5,000  
Dallas, postoffice..... 300,000

## Virginia.

West Point, postoffice..... \$5,000  
Cape Charles, postoffice..... 7,500  
Buena Vista, postoffice..... 5,000  
Woodstock, postoffice..... 5,000  
Manassas, postoffice..... 5,000

## West Virginia.

New Martinsville postoffice..... \$12,500

The \$40,000 for a courthouse, appraisers' store, etc., at Galveston are in addition to the \$90,000 previously authorized; the \$200,000 for the subtreasury at St. Louis looks to an ultimate expenditure of \$1,000,000; the \$150,000 for the immigrant station at Baltimore are an addition to \$130,000 already authorized; the \$150,000 for the improvement of postoffice and courthouse at Kansas City, Mo., look to an ultimate expenditure of \$500,000; the \$300,000 for the customs service at Wilmington, N. C., are in addition to \$300,000 already authorized, and the \$1,000,000 for the Governmental offices at Birmingham, Ala., carry the provision that the Secretary of the Treasury may, in his discretion, sell the site already acquired for not less than \$200,000.

The items do not include provisions for undertakings in the District of Columbia, such as fixing the limit of cost for the Bureau of Engraving and Printing at \$2,880,000, authorizing the immediate expenditure of \$500,000 of a total \$2,500,000 contemplated for a fireproof modern office building for the geological survey, the reclamation service, the Indian office, the bureau of mines and such other offices and bureaus of the Interior Department as may be accommodated therein, and the expenditure of \$1,300,000 for the acquisition of land connecting Potomac Park and Rock Creek Park.

## Public Roads as Public Necessities.

In introduction to Economic Paper No. 32 of the North Carolina Geological and Economic Survey, consisting of recent decisions of the Supreme Court of the State on the validity of county and township bond issues for constructing public roads and on the expenditure of funds from the general treasury of a county for this same purpose, State Geologist Joseph Hyde Pratt says:

"For many years the decisions of the Supreme Court of North Carolina have held that public roads are public necessities, and, for this reason, county officials have the right and power to borrow money, either directly or on bonds of the county, for the purpose of constructing public roads in the county. These decisions of the Supreme Court have had a very salutary effect upon the sale of bonds, and in many instances county bonds have been sold as bearing only 4½ per cent. interest, and even at this rate have brought a premium.

"The benefits to be derived from the construction of public roads in any county are not confined to that county, but very beneficial results extend to adjoining counties; and, in fact, are of direct value and benefit to the State as a whole. Public roads are the common property of all of the people of the State, and all have the right and privilege to use them, regardless of what county may have paid for their construction. It is, therefore, very essential, if the best results are to be obtained in road work, to make the unit of this work as large as possible. At the present time it does not seem advisable for the State to be the unit, and, therefore, the next unit in size would be the county; and every precaution should be taken, in raising revenue for the construction and maintenance of public roads, for the county to be the unit. There are many reasons why the county should be the unit in road construction, and not the township.

"First—If revenue for the construction of the roads is obtained by a bond issue, the county is able to issue its bonds at a much cheaper rate of interest than the township, and there is also a readier market for county than township bonds.

"Second—County bonds are more apt to bring a premium than township bonds, and thus a greater amount can be realized by their sale.

"Third—With the county as a unit, one road commission would have supervision of all the roads in the county; while, with the township as a unit, various commissions would have charge of the roads in the separate townships.

"Fourth—Less equipment is necessary for carrying on the road work with the county as a unit than when equipment has to be provided for each township. This is true even when the townships try to combine in buying their road equipment; and there is very apt to be friction between the different township authorities in regard to the use of jointly purchased equipment.

"Fifth—The chain gang is much more easily and economically handled when the county is the unit. With the township as a unit, even when there is a chain gang maintained in the county, there is constant friction between the various townships as to the use of this chain gang, or else it is used one year in one township and the next year in another, and to the detriment of the roads in each.

"Sixth—The county can afford to em-

ploy a competent road superintendent, where it would be impossible for each township to employ such a man. This is also true of the supervising road engineer.

"Seventh—Perhaps the greatest objection to any subdivision being the unit, except the county, is the fact that if townships begin to issue bonds for their road construction and build roads in these townships (and it is practically always the richer townships which start a bond issue), it will mean that these richer (usually urban townships) will get a system of good roads and the balance of the county will not be able to get roads for many years, or even generations to come, without some outside help. The outlying townships of a county help to build up and increase the wealth of the business centers, and it is only right and just that these latter townships should join with the others in a general county system for building and maintaining the roads of the county. Not only do the rural townships need the roads, but it is of advantage to the urban townships to have good roads built through all the townships of the county, inasmuch as such a system of good roads will greatly increase the trade between one section of the county and another.

"I am therefore very strongly in favor of the county unit for raising revenue for road work and of a county organization which shall have charge of the construction and maintenance of roads. And, whenever the question of raising revenue for road work by a bond issue is taken up, I would earnestly urge that the people of the county be given an opportunity to express themselves by a vote as to whether or not they want a county bond issue. Then, if the county turns down the bond issue, I believe it is only right and just for progressive townships to issue bonds if they wish. But give the county the opportunity of issuing bonds before any township in that county undertakes the issuance of bonds for public roads.

"As the good-roads movement spreads throughout the South and the demand for good roads by counties and townships increases, the question of raising revenue for their construction becomes paramount. As I have stated in a number of previous articles, for most counties and townships the most feasible method of raising revenue for public road construction is by a bond issue, and this is the method that is now being utilized by many counties in the various States. Before the revenue becomes available for road work the bonds have to be sold, and before the bonds can be sold the buyer has got to be assured of their validity. In North Carolina this question has been discussed pro and con for a great many years, and many decisions have been made regarding the right and power of the county or township to issue bonds for this purpose. It was formerly considered necessary that before a bond issue was valid it had to be voted upon by the people of the county, and a majority of the qualified voters must vote favorably for it; but when the North Carolina Supreme Court had given an opinion that public roads are public necessities, as they have done in many instances, as *Herring vs. Dickson*, 122 N. C., page 420; *Tate vs. Commissioners*, 122 N. C., page 812; *Crocker vs. Moore*, 140 N. C., page 429, it changed very decidedly the aspect of bond issues for road work. In the broadest sense of these decisions of

the Supreme Court it would mean that our county commissioners have the authority to borrow money and to issue bonds to raise revenue for the construction of public roads within the county without any vote of the people or any further authority of the Legislature. It seems to me that now the election for a bond issue is not to make the bonds valid, but to give expression to the county commissioners that it is the will and demand of the people that they issue bonds for the purpose called for in the election."

### FOR THE YAZOO DELTA.

#### Plan to Settle Germans and Belgians on Mississippi Land.

Governor Earl Brewer of Mississippi, writing to the MANUFACTURERS RECORD regarding the present status of the plan in which he is interested by which extensive areas of Delta land would be sold for development, says:

"We have a large cotton plantation, or that is, three separate large cotton plantations, consisting in all of about 28,000 acres. These plantations are thoroughly organized, and up and going concerns in a high state of cultivation. It is our object in the near future to cut them up into small tracts of 20, 40, 60 and 80 acres, no tract less than 20 acres and no tract larger than 80 acres. On one of these plantations we have a party engaged who will visit Germany and undertake to settle a colony of Germans on this property, and it is to be sold to them on credit, they furnishing as their first cash payment only enough to pay one year's rent. They will be given 5 or 10 years to pay the balance in equal annual instalments. The property is to be sold to them at the cost price, which will be about \$60 per acre. With each tract sold there is to be a house and barn on it. On one of the other properties we have a young man who will visit Belgium and undertake to handle this property in the same way with Belgium farmers. The third property we are going to undertake to handle in the same way with native sons of Mississippi. We expect to have deposited in the bank a large sum of money as a guarantee that the contracts will be carried out on behalf of our association just as written.

"It is a fact that there are quite a number of young men who migrate from our State every year to Texas, Oklahoma and the West. They are not leaving now in such large numbers as they did a few years ago. They are the young progressive element of our State, and we desire to retain them.

"The three plantations are located in the heart of the Yazoo-Mississippi Delta, which a few years ago was a wilderness, canebrakes, lagoons, alligators, turtles and the like, but now it is a strip of country about 50 miles wide and about 200 miles long, bordered on the west by the Mississippi River, on the east by the Yazoo River, and is as level as a floor. It is now protected by levees, the upper and northern half of which has not had a break since 1897. The Federal Government is now undertaking to render substantial assistance in the maintenance of these levees. They have heretofore been maintained by the people of the Delta. The Democratic party is in power in both branches of Congress, and with the President and the Democratic party pledged by platform declaration to the absolute protection of this country and others of the Mississippi Valley, and when this is done and the Yazoo-Mississippi Valley reduced to a high state of cultivation it will be the finest country to be found anywhere on the American continent. It is a delta-made land. One can dig a well 40 feet

deep and strike a cypress log. The rich soil is very, very deep.

"I can show you in this section cotton plantations that have been worked constantly in cotton for 40 years, never making a crop failure, and produced a bale of cotton per acre last year without any kind of fertilizer. It is in this section that anything can be grown in the way of fruits, vegetables and feedstuff that can be grown in the temperate zone.

"There are only about 400,000 bales of long staple cotton produced in America annually; that is to say, cotton that runs above one and three-sixteenths inches in staple. Of this, about 100,000 bales is what is termed Sea Island cotton, produced along the Atlantic coast in the cotton belt. The other 300,000 bales of long-staple cotton is termed long-staple uplands, and of this 300,000 bales, over 75 per cent. is produced in the Yazoo-Mississippi Delta. The premium on this cotton is greater than the price of cotton, much of which sold last season as high as 28 cents per pound, when short-staple cotton was selling around 11 cents. It is difficult to make or grow long-staple cotton in an upland or hilly region, because the lands are thin and require expensive fertilization. There is much long-staple cotton grown in Egypt on the Valley Nile, but an annual fertilization tax is great and the water tax is great, as that land must be irrigated, and all irrigated lands have to be fertilized to produce long-staple cotton, but in the Yazoo Delta a bale per acre can be produced without any fertilization, and without any water tax, as there is a 47-inch precipitation. In other words, it is here in the Yazoo-Mississippi Delta that cotton can be produced cheaper than at any other place on this terrestrial ball.

"A few years ago the people of the United States in their rush to the West overlooked the lands of this valley, because they were overflowed and swamped lands at that time, as the levees had not been constructed, but now these lands are attracting attention as no other lands in the United States. I have known cotton plantations to be bought in the last three years in the Yazoo-Mississippi Delta with 75 per cent. of the land in cultivation, and I have known them to produce cotton enough to pay for the cost of production and to pay for the plantation in one year. This is an abnormal state of affairs, and will not exist always, and will not continue longer than the world finds it out.

"We have here in Mississippi the most fertile lands to be found anywhere, unsurpassed by the Valley of the Nile. It is here where the climate, season and soil blend together and make the ideal home for a man. All we need is more people and the right kind of people."

### FOR BEST CROP YIELDS.

#### Prizes Offered Texas Farmers by the Houston Oil Co.

[Special Cor. Manufacturers Record.]

Houston, Tex., March 31.

Reflecting widespread and increasing interest in Texas in the improvement of agricultural conditions which has been cultivated through the liberal prizes offered in the past two years by Texas Industrial Congress for record crops is the announcement by the Houston Oil Co. that it will give \$1000 in gold as prizes to the farmers of 12 East Texas counties for the best crop yields on a uniform unit of four acres each. The counties are Angelina, Hardin, Jasper, Jefferson, Liberty, Nacogdoches, Newton, Orange, Polk, Sabine, San Augustine and Tyler.

The conditions are that there shall be



not less than three competitors in each county. The competition will be open without charge or cost to every man, woman, boy or girl who will comply with the rules for the contest. There will be a first prize of \$500, a second of \$350 and a third of \$150. The prizes are for the largest combined yields of merchantable crops produced on four one-acre plots, which must lie side by side and make one body or tract of land. On the first acre cotton is to be grown; on the second, corn; on the third, cowpeas, and on the fourth, Irish potatoes, to be followed by sweet potatoes on the same acre.

This undertaking is in accordance with the aim of the Houston Oil Co. to secure an agricultural development of cut-over pine lands, and a prime condition in the contest is that the lands on which competitors are to operate shall be cut-over pine lands.

In connection with this offer, the farmers are urged to raise livestock, hogs, sheep, a cow or two, and also poultry. It is hoped that a very general interest will be aroused through this prize contest, and that a demonstration may be made of value locally, as well as otherwise, as to the productivity of cut-over pine lands.

ALBERT PHENIS.

### FOR 220,000 HORSE-POWER.

**Contract Awarded for Plant by Southern Aluminum Co. of North Carolina.**

Referring to recent reports, the Hardaway Contracting Co. of Columbus, Ga., wires the MANUFACTURERS RECORD as follows:

"Contract has been awarded by Southern Aluminum Co. of Whitney, N. C., to the Hardaway Contracting Co. for the excavation of the factory site and spillway and the building of a dam and powerhouse at the Narrows on the Yadkin River. A 177-foot head will be developed and the dam will be approximately 200 feet high. About 600,000 yards of masonry will be involved. The most improved plant that can be designed will be placed upon the work. It is understood that the Southern Aluminum Co. expects to develop 220,000 horse-power, which will be used in the manufacture of aluminum."

### Wants Alligator Skins.

N. Uchida & Co., 14, Yagembori, Nihombashi-ku, Tokio, Japan, write to the MANUFACTURERS RECORD as follows:

"Try to get us in touch with some alligator skin dealers in Florida who can export the skins direct to us. At present we desire to have an annual supply of 20,000 to 30,000 green salted alligator skins (all bellies, two up to five feet), and this number will, of course, increase year after year. Heretofore we have been buying them in the New York market, but their supply, as well as their price, being quite unsteady there, we now wish to directly communicate with the dealers in the locality where alligators are hunted, so that we may have quicker, more regular and cheaper supplies."

### Straw-Hat Machinery.

O. Mejia O., Calle 56 n 420, Merida-Yucatan, Mexico, writes to the MANUFACTURERS RECORD as follows:

"I am very much interested in getting all the particulars possible in regard to machinery for preparing and cutting straw in order to make it into straw hats, and I desire to supply myself with such machinery and the necessary accessory equipment in order to establish at this place a factory for the manufacture of straw hats."

## GOOD ROADS

### WEEK'S HIGHWAY RECORD.

#### Progress in Southern Road and Street Improvement.

[Further details of highway undertakings and bond issues mentioned below are given under the headings Construction Department and New Securities, published elsewhere in this issue.]

#### Bonds Voted.

Athens, Ga.—City voted \$75,000 bonds for road improvements.

Bishop, Tex.—Road District No. 1 of Nueces county voted \$100,000 bonds to construct about 50 miles road.

Corsicana, Tex.—Navarro county voted \$400,000 bonds for road construction.

Donaldsonville, La.—First Road District of Ascension parish voted \$50,000 bonds for road construction.

Fulton, Miss.—Itawamba county will issue \$65,000 bonds for road construction.

Meridian, Miss.—City voted \$25,000 bonds for street improvements.

#### Bonds to Be Voted.

Baton Rouge, La.—Third Ward of East Baton Rouge parish votes May 10 on three-mill tax to construct gravel roads.

Gause, Tex.—Gause precinct votes April 12 on 40,000 bonds for road construction.

Highland Park, P. O. at Richmond, Va. City will vote on \$50,000 bonds for paving, etc.

Kyle, Tex.—Kyle precinct of Hays county votes April 11 on \$100,000 bonds for road construction.

Livingston, Tex.—Justice Precinct No. 1 of Polk county votes April 26 on \$200,000 bonds for road construction.

Miami, Fla.—City votes May 13 on \$60,000 bonds to pave streets and sidewalks.

Mt. Airy, N. C.—Mt. Airy township of Surry county votes April 17 on \$80,000 bonds for road construction.

Spartanburg, S. C.—City will vote on \$100,000 bonds for street and sidewalk improvements.

Tallahassee, Fla.—City votes April 15 on \$32,000 bonds for street paving.

Tampa, Fla.—Hillsboro county will vote on \$500,000 bonds to construct brick roads.

Wilmington, N. C.—New Hanover county votes May 27 on \$100,000 bonds for road construction.

#### Contracts Awarded.

Rome, Ga.—City awarded contract for construction of 4520 square yards of Trinidad Lake sheet asphalt; amount available, \$12,000.

Cleveland, Okla.—City awarded contract to pave eight blocks with vitrified brick on concrete base; cost about \$40,000.

Darlington, S. C.—Town awarded contract to pave about 18,000 square feet of sidewalks.

Kansas City, Mo.—Kansas City Terminal Railway awarded contract at about \$225,000 for creosoted wooden block paving, aggregating 75,000 square yards, around new Union Station and over 13 viaducts; require about 5,000,000 blocks.

#### Contracts to Be Awarded.

Baltimore, Md.—Highways Commission receives proposals at Towson, Md., until April 17 for building section of State-aid highway for about 50 miles.

Cordele, Ga.—City will expend \$100,000 for street paving.

Fairmont, W. Va.—Marion county receives bids until April 10 to construct 32.7 miles of road.

Fayetteville, Ark.—City will construct 20,000 square yards of pavement; amount available \$50,000.

Gastonia, N. C.—City receives bids

April 4 to construct 38,000 square yards concrete sidewalks.

Louisville, Ky.—Board of Public Works receives bids until April 10 for street improvements estimated to cost \$35,000.

Morristown, Tenn.—City receives bids until April 18 to construct 15,730 square yards guttering, grading and paving with sheet asphalt in district No. 4.

Petersburg, Va.—Dinwiddie county will gravel Jerusalem plank road from city limits five miles into Prince George county.

Richmond, Va.—Administrative Board will expend \$4000 for driveway at River-view Park.

## FOREIGN NEEDS

### For Lumber and Agriculture.

Edwd. A. Dearle, 16 Queen's Park, East, Port of Spain, Trinidad, B. W. I., writes to the MANUFACTURERS RECORD as follows:

"I am interested in agricultural machinery, especially tractors operating on kerosene. At present there is no demand for such machinery here, everything being done by hand labor with the exception of one or two English steam plowing outfits on large sugar estates. There is plenty of scope for various types of American machinery, but the people are not at all progressive, and anything new to them has to be practically forced upon them. There is an enormous field in Venezuela, and if you know of any progressive manufacturers who wish to push agricultural machinery there I should be pleased to correspond with them. I have been looking for a cheap portable machine for felling tropical hardwood trees. Such trees often grow in or near swamps or on very steep hillsides in thick jungle. The wood is extremely hard, and frequently of large girth. The only machine that seems at all likely is that of the International Endless Chain Saw Co., but this is entirely prohibitive in price for this country. Such a machine, with another that would saw the logs into planks on the spot, would be most useful here. The ordinary portable sawing outfit is not suitable. Many owners burn the whole of the timber on their land because they say the cost of cutting and transportation is greater than the price the timber fetches when sent to town."

### Hardware, Glass, Etc.

Constant's Bureau, 169 Castlereagh street, Sydney, Australia, writes to the MANUFACTURERS RECORD as follows:

"We require first-class agencies for hardware, glass for buildings (that is, plate glass), etc.; in fact, any agency where a large turnover can be effected. The outlook for selling American goods in this country is extremely good, as Australians prefer American goods to any others. We may mention that the National Association of Manufacturers, New York, have all our references, etc."

### Machinery for Argentina.

A. A. Pozzi, 827 Cangallo, Buenos Aires, Argentina, S. A., writes to the MANUFACTURERS RECORD as follows:

"I shall shortly return to the States to arrange for new representations for my next trip, and shall perhaps give you a call on or about May or June next; meanwhile should you have some first-class manufacturers that desire to be represented I shall be glad to furnish all the information in my possession, as well as the necessary commercial references."

## RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

### TO ENTER FREEPORT.

**The Missouri, Kansas & Texas Railway Buys Into Houston & Brazos Valley Line.**

The Missouri, Kansas & Texas Railway system, with more than 3000 miles of lines connecting important centers of the West and Southwest, will enter Freeport, Tex., as previously reported, the news being now confirmed by S. M. Swenson & Sons, 37-43 Wall street, New York, who wire the MANUFACTURERS RECORD as follows:

"Secretary Missouri, Kansas & Texas confirms purchase interest in Houston & Brazos Valley Railroad. This puts Missouri, Kansas & Texas into Freeport."

It is understood that the Missouri, Kansas & Texas Railway's purchase of a one-half interest in the Houston & Brazos Valley Railroad was made because of the freight originating at Freeport, especially shipments of sulphur produced there. While the company does not intend to give up its large terminal properties at Galveston, President C. E. Schaff is quoted as saying that it has purchased a terminal site at Freeport in addition to land already owned by the Houston & Brazos Valley road, and it is said that wharves and warehouses will be built.

The Houston & Brazos Valley line is 60 miles long from Houston to Velasco, Tex., which is on the other side of the Brazos from Freeport, but cars are ferried across the river to the latter point, and it is proposed to build a bridge and enter Freeport directly by rail. The extension required will be about three miles long. Felix Jackson of Freeport is president of the road, and E. P. Swenson is vice-president, the syndicate which is developing Freeport having obtained control of the line. It connects with the International & Great Northern at Anchor, Tex., and with the Frisco lines at Angleton, Tex. The Missouri, Kansas & Texas connects at Houston.

The large system which by the deal just closed gains entrance to the land-locked deep-sea terminal at Freeport reaches from St. Louis and Hannibal, Mo., to Kansas City, Oklahoma City, Fort Worth, Dallas, Wichita Falls, Shreveport, Waco, San Antonio, Austin, Galveston and many other important points in Missouri, Kansas, Oklahoma and Texas. It is one of the later acquisitions of the late Edwin Hawley, and Frank Trumbull is chairman of the board and C. E. Schaff is president. It is a progressive company, and has within the last few years gained control of the Texas Central Railway, the Wichita Falls lines and other good properties in the Lone Star State. Its entrance to Freeport may therefore be regarded as a positive indication of a determination to push developments which will result to the advantage of that terminal.

There is a steamship line—the Seaboard & Gulf—connecting with New York from its docks opposite Freeport, and the establishment of freight and passenger service to and from the latter place is promised.

### RAILROAD DEAL RUMORED.

**Missouri, Kansas & Texas Expected to Get Louisiana Railway & Navigation Co.'s Line.**

The Louisiana Railway & Navigation Co.'s railroad will be either purchased or leased by the Missouri, Kansas & Texas Railway Co. in order to obtain entrance

to New Orleans, according to reports from that city. These reports followed a trip over the line by President C. E. Schaff, Vice-Presidents W. A. Webb and C. Haile and General Freight Agent J. L. West of the M. K. & T., in company with President Wm. Edenborn of the Louisiana Railway & Navigation Co. Coming so soon after the Frisco had changed the routing of its trains into New Orleans from the Edenborn road to the Yazoo & Mississippi Valley Railroad, they received much credence, although Mr. Edenborn and his guests would not discuss them. However, after arriving at Dallas, Tex., from New Orleans President Schaff was quoted as saying that the M. K. & T. had not bought the line, nor was it likely that it would do so, although the road was for sale and somebody would get it.

At New Orleans the impression seems to prevail that the Missouri, Kansas & Texas Railway will get in there over the Edenborn property either by purchase or by a trackage arrangement. Should neither of these be done, it is said that the Rock Island system might buy the road, and it was regarded as not impossible that it might be acquired by the Kansas City Southern, which has been credited with having eyes upon New Orleans for some time. The line is 306 miles long from Shreveport to New Orleans, with two branches, one to Winnfield, 27½ miles, and another to Tioga Junction, 7 miles. It has valuable terminals in New Orleans, besides about 17 blocks of property and 600 feet of river front. The entire railroad, it is understood, is owned by Mr. Edenborn. It was completed into the city several years ago. The estimated value of the road is about \$12,000,000.

#### WHARVES AT SAVANNAH.

##### Central of Georgia to Award Contract for \$300,000 Terminal Reconstruction.

Plans and specifications for the reconstruction of its wharves and warehouses recently burned at Savannah have been prepared for the Central of Georgia Railway Co. by its own engineers. The cost of the work will be about \$300,000. The wharves are to be built with piling cut off at the water line, floored over, and concrete wall constructed along the dock front, the rest of the wharf and property to be filled in to the elevation of the floor in building, the floor to be made of three-inch creosoted planks. There will be a wooden shed, enclosed with corrugated iron, 125 feet wide and 1120 feet long, the length of the wharf. Four tracks will be constructed to the rear of this building, and across the tracks a similar shed will be erected 450 feet long by 95 feet wide. Four firewalls will divide the building into three berths. There will be no mechanical equipment, except to operate the drops, the freight being handled largely by motor trucks. Bids were opened last week, and the contract will be awarded in a few days.

#### LOUISVILLE TO ST. CLAIR.

##### Proposed Line in Georgia for Short Routes to Augusta and Savannah.

It is proposed to build a railroad from Louisville, Ga., northward about 20 miles to St. Clair, Ga., on the Georgia & Florida Railway, which will give a short line from Louisville to Augusta, the present railroads between those points being about double the length of the route proposed. At St. Clair connection will also be made with the Brinson Railway, extending from there to Savannah, 118 miles from Louisville. Furthermore, when the Brinson Railway is continued to a connection with the Georgia Railroad it will have the

effect of placing Louisville 25 miles nearer to Atlanta and the West.

President W. W. Abbot of the Abbot Manufacturing Co., Louisville, Ga., and been to Baltimore in the interest of the railroad plan, and it is understood has arranged financing for it, so that work will soon begin. The Louisville Construction, Land & Development Co. is to build the road. Its capital of \$50,000 is said to be subscribed, and application will be made for a charter.

#### THREE NEW STEAMERS.

##### Morgan Line to Build Them to Meet Demands of Growing Gulf Traffic.

C. W. Jungen, general manager of the Morgan Line, is quoted saying while in Galveston recently that the budget of expenditures for the company during the coming fiscal year provides for the construction of three new steamships for the New York-Gulf service, and they will be built if the item meets the approval of the directors, which is expected. Freight traffic through Galveston is constantly increasing on rail and water lines, and all the steamers of the company are carrying full cargoes both ways. The vessels proposed are to be of improved designs, so that any kind of cargo may be carried on them. They are to be equipped to use oil for fuel. Four of the vessels now running are burning oil.

#### New Equipment, Rails, Etc.

Norfolk Southern Railroad, it is announced in New York, has ordered 300 ventilated box cars, 160 flat cars, 40 ballast cars, 6 cabooses, 6 passenger cars, 3 mail and baggage cars, 5 consolidation locomotives, 4 10-wheel locomotives, 2 electric motor cars, 3 trail cars and 1 derrick car, the contracts being distributed among the following: Mount Vernon (Ill.) Car & Manufacturing Co., Baldwin Locomotive Works, Philadelphia; American Locomotive Co., New York, and the American Car & Foundry Co.

Illinois Central Railroad says a market report, has ordered 1000 fruit cars from the American Car & Foundry Co., St. Louis.

Seaboard Air Line, according to a report from New York, is in the market for 10,000 tons of open-hearth steel rails, which are expected to be rolled by the Tennessee Coal, Iron & Railroad Co.

Chicago & Alton Railway awarded its contract for 7000 tons of rails to the Illinois Steel Co., Chicago.

Louisville & Nashville Railroad is reported getting prices on orders for 600 gondola cars, 500 box cars, 100 flat cars, 150 stock cars and 100 automobile cars.

Pascagoula Street Railway & Power Co., Pascagoula, Miss., is reported to have ordered four closed cars from the American Car Co., St. Louis.

Atlantic Coast Line, says a market report, will award contract for 24 steel passenger cars and three steel mail and express cars.

Southern Railway, says a report, may purchase 10,000 tons of rails.

International & Great Northern Railroad is reported to have ordered from the National Lumber & Creosoting Co., Houston, Tex., for 1913 delivery 60,000 white oak ties per month, or 720,000 for the year. The Trinity & Brazos Valley Railway is also reported to have ordered from the same concern 30,000 ties per month for the year, or 360,000 altogether.

Baltimore & Ohio Railroad has ordered 1500 steel hopper cars, the contracts being equally divided between the American Car & Foundry Co., the Pressed Steel Car Co. and the Standard Steel Car Co.

A late report says that the Chicago &

Alton has awarded contracts for 1000 steel coal cars, 1000 box cars, 500 stock cars and 400 flat and ballast cars. The builders are not named.

#### Plans of the Ocilla Southern.

President J. A. J. Henderson of the Ocilla Southern Railroad Co., Ocilla, Ga., says that it plans the construction of a line 230 miles long from Macon, Ga., to Jacksonville, Fla., via Perry, Unadilla, Rochelle, Fitzgerald, Ocilla, Alapaha, Nashville, Milltown and Dupont, Ga. The line selected is comparatively level, and is mostly a ridge route. There will be few bridges. Date for construction bids is not yet fixed.

The Ocilla Southern is already operating 50 miles of railroad, which covers part of the route and connects Fitzgerald, Ocilla, Alapaha, Nashville and Irwinville, Ga., the latter being a terminus of a nine-mile branch. An extension from Fitzgerald to Rochelle is being finished.

Besides President Henderson, the directors of the railroad are Reason Henderson, vice-president and treasurer; William Henderson, John D. Paulk, H. J. Quincey, M. J. Paulk, J. L. Paulk, R. V. Paulk, all of Ocilla; W. R. Bowen and Wadley Garbutt of Fitzgerald; J. D. Lovett, W. T. Tygert and J. Frank Sikes of Nashville, and J. N. King and S. B. Ried of Rochelle, Ga.

D. C. Smith of Ocilla is secretary and general manager, and Edward Wilson of Fitzgerald is chief engineer.

#### Shenandoah Valley Electric Railway

President Gray Silver of the Shenandoah Valley Railway Co., Martinsburg, W. Va., says that the line it proposes to build will be 70 miles long from Williamsport, Md., to Winchester, Va., via Martinsburg, Hedgeville, Shepherdstown and Charles Town, W. Va. The route is through slightly rolling country and the bridges will be small and few. Connection will probably be made at Williamsport with a trolley line to Hagerstown, Md.

The other officers and directors of the company are C. W. Watson, vice-president; J. O. Watson, treasurer, both of Fairmont, W. Va.; F. E. Wilson, secretary, Martinsburg; J. H. Wheelwright and Van Lear Black, both of Baltimore; S. W. Walker, S. N. Myers, C. E. Martin and J. W. Stewart, all of Martinsburg. Dudley Britt of Clarksburg, W. Va., is chief engineer. President Silver will also be general manager.

The organization meeting was held at the offices of Martin & Seibert, general counsel for the company.

#### Federal Light & Traction Co.

The annual report of the Federal Light & Traction Co., 60 Broadway, New York, as of December 31, 1912, shows for the twelvemonth: Gross earnings, \$1,722,647.83, an increase of 15.1 per cent. over 1911; net earnings, \$714,612.18, an increase of 17.3 per cent. There was spent for additions, extensions, betterments and acquisitions \$1,200,000, which is expected to result in increased net earnings. The acquisition of control of the Central Arkansas Railway & Light Corporation at Hot Springs, Ark., is formally announced and confirms previous reports. This deal was closed since the first of the current year. The report is signed by C. C. Chappelle, vice-president and general manager.

#### Cheat Haven & Bruceton Road.

President J. L. Kendall of the Kendall Lumber Co., House Building, Pittsburgh, Pa., says that construction on the Cheat

Haven & Bruceton Railroad from Cheat Haven, Pa., into West Virginia, is proceeding as rapidly as can be expected, considering the nature of the work. There are eight miles at present being constructed. On this is one trestle requiring 1,500,000 feet of lumber. This eight miles of line should be completed by August 1 at the latest. Connection with the Baltimore & Ohio Railroad is made at Cheat Haven. When this much of the railroad is ready the lumber company will begin the erection of its mill and the opening of coal mines.

#### Nashville-Gallatin Road Finished.

The Nashville & Gallatin Interurban Electric Railway, 28 miles long from Nashville to Gallatin, Tenn., has been completed and was put in operation April 1. H. H. Mayberry of Nashville is president. The driving of the last spike at Gallatin was celebrated by a large number of people, including many visitors from Nashville. The line is equipped with several large motor cars of all-steel construction, each being 52 feet long. One is operated from each end of the line every hour. The road is equipped with safety signals.

#### Railroad Notes.

The report of the Asheville Power & Light Co. for the year ended with February, 1913, shows gross earnings, \$356,982; net earnings, after payment of operating expenses and taxes, \$154,651. A year ago these were, respectively, \$334,759 and \$139,847.

The Seaboard Air Line, according to a report from Charlotte, N. C., has completed and opened for service its new station there at East 5th street. The freight section has partition walls and fire doors, the latter being automatic in their operation. There will be 15,000 square feet of floor space.

A report from Biloxi, Miss., says that the Biloxi Great Northern Railroad Co., organized several years ago to build a railroad from Biloxi northward, will be revived by W. L. Covell and others. It is contemplated to develop timber and cotton lands and (if extended to Alabama) some coal property.

Earnings of the Washington, Baltimore & Annapolis Electric Railway for the year 1912 are reported thus: Gross operating revenue \$778,287, increase \$80,557; net operating revenue after payment of operating expenses \$389,331, increase \$39,324; gross income \$395,637, increase \$36,532; net income after deductions (including taxes) \$124,101, increase \$56,384.

The Western Maryland Railway Terminal Co. of Baltimore has been authorized by the Maryland Public Service Commission to issue \$300,000 of stock. The company, which is a subsidiary of the Western Maryland Railway, controls the yards, depots and other terminal facilities of the parent organization. It has recently completed and opened a large warehouse adjoining Hillen Station, near the center of Baltimore.

#### To Develop Arkansas Land.

R. Camahan of Louisville, Ky., and associates have purchased for development 25,000 acres of timber land in Jefferson and Lonoke counties, Arkansas. They will construct a railway connecting with the Cotton Belt Railroad and manufacture lumber, selling the land for agricultural purposes after the timber is removed. One-half the timber is white oak.



## TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

### SOUTHERN TEXTILE ADDITIONS.

**Total for First Quarter Is 168,325 Spindles and 2276 Looms, a \$4,200,000 Investment.**

Nearly twice as many spindles for Southern mills were announced during the past three months than for the first quarter of 1912, and that quarter was a decided improvement over the corresponding period of 1911. During January, Feb-

ruary and March of 1913 there were 168,325 spindles and 2276 looms, a \$4,200,000 investment, announced for installation in Southern cotton manufacturing establishments. There were 105,725 spindles and 896 looms reported for additions to existing plants, a \$2,650,000 investment, while the strictly new enterprises called for a total of 62,600 spindles and 1380 looms, requiring an investment of \$1,560,000. The figures for the enlargements emphasize the continued confidence of Southern cotton manufacturers in the advantages of the cotton-growing region for the production of cotton goods.

The notably large enterprises of the first three months of 1913 were the Erlanger Cotton Mills, to have 25,600 spindles and 680 looms; the Monarch Cotton Mills, to add 20,000 spindles and 500 looms, and the Crystal Springs Bleachery Co., to build a plant of 20,000 spindles and 700 looms.

The quarter's reports are outlined in the following table:

Alabama.		Spindles.	Looms.
Name.	Location.		
*Adelaide Mills.....	Anniston.....	1,616	....
*Russell Manufacturing Co.....	Alexander City.....	5,016	....
*Southern Mills Corporation.....	Oxford.....	1,300	....
		7,932	....
Georgia.			
Crystal Springs Bleachery Co.....	Chickamauga.....	20,000	700
*Eagle & Phenix Mills.....	Columbus.....	3,156	....
*Dixie Cotton Mills.....	Lagrange.....	13,000	....
*Villa Rica Cotton Oil Co.....	Villa Rica.....	2,500	....
*Unity Spinning Mills.....	Lagrange.....	3,024	....
		41,680	700
North Carolina.			
Maysville Cotton Mills Co.....	Maysville.....	5,000	....
Erlanger Cotton Mills.....	Lexington.....	25,000	680
*Dunn Manufacturing Co.....	Gastonia.....	1,600	....
*Clara Manufacturing Co.....	Gastonia.....	3,000	....
*Albion Mills.....	Mt. Holly.....	2,449	....
*Mt. Holly Cotton Mills.....	Mt. Holly.....	2,112	....
*Cabarrus Cotton Mills.....	Kannapolis.....	15,000	....
*Pacotah Mills.....	Lexington.....	4,900	200
*Barringer Manufacturing Co.....	Rockwell.....	1,000	....
*Caswell Cotton Mills.....	Kinston.....	5,472	....
*Patterson Mills Co.....	Ronoke Rapids.....	2,880	86
*Highland Cotton Mills.....	High Point.....	12,000	....
*Anchor Mills.....	Huntersville.....	5,000	....
		85,313	976
Mississippi.			
*Yazoo Yarn Mill.....	Yazoo City.....	1,500	....
South Carolina.			
*Monarch Cotton Mills.....	Union.....	20,000	500
*Eureka Cotton Mills.....	Chester.....	2,500	100
*Whitney Manufacturing Co.....	Whitney.....	10,000	....
		32,500	600
		168,325	2276

\*Established mills increasing.

### The Cotton Movement.

In his report for March 21 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight for 202 days of the present season was 12,189,440 bales, a decrease under the same period last year of 1,746,175 bales. The exports were 7,001,409 bales, a decrease of 1,741,352 bales. The takings were, by Northern spinners, 2,007,607 bales, a decrease of 106,571 bales; by Southern spinners, 2,210,177 bales, an increase of 331,399 bales.

In his report for March 28 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 200 days of the present season was 12,317,888 bales, a decrease under the same period last year of 1,806,747 bales. The exports were 7,078,306 bales, a decrease of 1,842,872 bales. The takings were, by Northern spinners, 2,037,353 bales, a decrease of 133,699 bales; by Southern spinners, 2,265,768 bales, an increase of 326,665 bales.

### New England Mill Men.

At the Boston meeting, April 24-25, of the National Association of Cotton Manufacturers the topics to be discussed will include beam dyeing, the modern method; centralized power plants; cotton growing in the Anglo-Egyptian Sudan; cotton-mill accounts; dyeing from different solvents; economy in lubrication; economy of super-

heated steam; importance of closer touch between the executives and operatives in mills; moisture in cotton and cotton fabrics; co-operation among manufacturers; spinning values of different grades of cotton; tare in cotton; tests of yarn and cloth; the new agriculture in the South and its relation to the spinning industry; wastes in cotton manufacture, and wastes of supplies used in cotton manufacture.

### American Cotton Manufacturers.

Secretary William C. Redfield of the National Department of Commerce, President W. A. Erwin of the Association, William M. Steuart of the Census Bureau, A. H. Baldwin, chief of the Bureau of Manufactures; R. M. Miller, Jr., Louis W. Parker, Alfred Reinhart and D. E. Douty will be among the speakers before the seventeenth annual convention at Washington, D. C., April 8-10, of the American Cotton Manufacturers' Association, formerly the Southern Cotton Spinners' Association. Among the topics to come before the convention are methods of handling Egyptian cotton, cotton exchanges, waste, commercial aspects of the crop, etc. A reception at the White House will be given the members.

### Addition to Whitehead Mill.

The Whitehead Hosiery Mills Co., Burlington, N. C., has plans for erecting its proposed additional mill building recently mentioned. This structure will be 180x50 feet, three stories high, of brick construction with prism glass to provide plenty of

natural light. The new building and its machinery for knitting hosiery are reported as to cost about \$75,000. On the first floor will be the offices and the storage, packing and shipping rooms; on the second floor, the loopers, ribbers, etc., rest rooms, lockers and two large dining halls; on the third floor, knitting machines, probably several hundred in number.

### To Enlarge Knitting Mill.

The Collier Manufacturing Co., Barnesville, Ga., will erect an additional brick building, two stories high, 150x50 feet, to its knit underwear mill and install machinery for knitting, bleaching and finishing.

### Thrft Manufacturing Co.

The Thrift Manufacturing Co., Charlotte, N. C., has been incorporated with capital stock of \$50,000 by T. C. Guthrie, C. W. Tillett, J. M. Guthrie and T. C. Guthrie, Jr.

### Ancona Cotton Mills.

The Ancona Cotton Mills, Yorkville, S. C., has been incorporated with \$250,000 capital stock by J. W. Cannon and J. F. Cannon of Concord, N. C.

The Lorraine Cotton Mill, West Point, Miss., has been organized with \$125,000 capital stock by J. R. French and C. E. Wilkins of Starkville, Miss. This company will continue the West Point Cotton Mills, which Messrs. French and Wilkins have purchased.

## MINING

### Purchased West Virginia Company.

The Lake Superior Coal Co. of Sault Ste. Marie, subsidiary to the Lake Superior Co., has purchased the Dixon-Pocahontas Coal Co. of Dixcopa, W. Va., for an amount exceeding \$500,000. This purchase includes extensive areas of coal land, with mines equipped for a large annual capacity, and the development will be continued in connection with the Cannelton Coal & Coke Co., which is owned by the Lake Superior Co. The output of the Cannelton property is shipped to Toledo for transshipment up the Great Lakes, the coal being used in the operation of the iron and steel and pulp mills and the railway owned by the Lake Superior Co. The output of the new purchase will be shipped by way of Sandusky and will be used mainly to manufacture coke for the industries controlled by the parent company.

### To Issue \$2,000,000 Bonds.

The Pond Creek Coal & Coke Co., Boston, is reported as arranging a \$2,000,000 bond issue to provide additional capital for continuing its developments in Pike county, Kentucky, seven mines being in progress of development and plans being made to begin three additional openings. F. W. Batchelder, the company's treasurer, wires the MANUFACTURERS RECORD as follows: "Bonds subject to approval of stockholders at meeting on April 9. Proposed issue \$2,000,000 6 per cent. first mortgage bonds."

### To Develop Tennessee Zinc.

The Ten Okla Oil, Gas & Mineral Co., Cleveland, Okla., recently incorporated with \$100,000 capital stock, plans to develop between 10,000 and 15,000 acres of zinc-bearing land near Jellico, Tenn., but has not determined details. This company's officers are: President, M. A. Stockton; secretary, O. P. Mauck; treasurer, George Brentmall; all of Cleveland.

## MECHANICAL

### Steel Sheet Piling for Levees.

The great strains to which levees are subjected during high water, and especially during the periods of unusual floods emphasizes the requirement for types of construction of the greatest resisting power practicable. The prominence attained by Lackawanna steel sheet piling when it was used by the United States Engineers for constructing the immense cofferdam in Havana harbor for raising the Maine has brought that system strongly to the attention of engineers and contractors who may need piling for levee construction, seawalls, revetments, cofferdams, drainage work, excavation and similar purposes. Another notable example of its use by the United States Army Engineers was in the construction of the Black Rock ship lock, Niagara River.

The application of such piling to levee construction has already been extensively described and illustrated in these columns, and its advantages for strength and durability stated. This form of steel sheet piling, fabricated by the Lackawanna Steel Co., Lackawanna, N. Y., is of the double interlock type, having similar hooks and guards on each edge. The hooks of adjacent sections engage to offer the greatest resistance to longitudinal displacement while the guards overlap and engage the outer surfaces of the hooks on the adjacent sections, thus preventing lateral displacement and co-operating to prevent longitudinal displacement. The contact surface in the joint is increased to three lines, so that there is a positive, double, firm and close interlock, yet a minimum of friction in driving or withdrawing and ample opportunity for material to work into the joint and render it water tight.

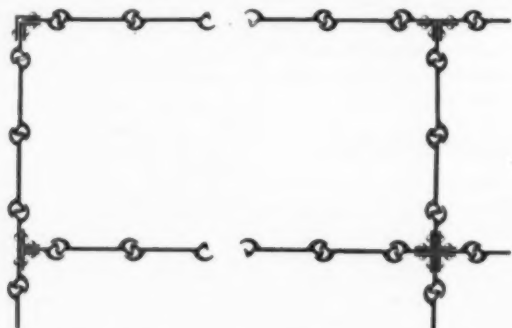
The Lackawanna section being integral, without riveting or other assemblage at the interlock, is without excessive weight or weakness and drives with least difficulty. A pile that drives easily pulls easily, so the Lackawanna type of section has great salvage value also. The edges are shaped to produce a flexible joint between adjacent piles. A change of direction of from 16 degrees to either side of the piling line with the smallest, to 20 degrees to either side with the other Lackawanna section is quite practical. In other words, a right angle may easily be turned with six seven-inch and with five of any other Lackawanna sections. The advantages of this flexible interlock in turning angles to pass obstructions are clearly shown in one of the illustrations. Small sumps, pits for pumps, circular open caissons for foundations and the like can be made without bending the webs and without additional fabrication. Clearance in the interlocked joint admits of great latitude in correcting the plumbness of each pile without distorting the interlock, should carelessness in driving or inequalities of the bottom throw the pile seriously ahead or behind.

Special piles are made for turning sharp corners and for joining a wall at right angles to another, as shown in the illustration. The corner section consists of two halves of the ordinary pile joined by two steel angles, to which the two webs are riveted. The T sections are made in a similar way, a half-section being riveted at right angles to the face of a full section by two steel angles.

In the development of the Lackawanna arched-web section, shown in one of the illustrations, special attention was given to securing a simple perfect interlock that would produce maximum strength against

pulling apart during driving, maximum tensional strength under pull in the direction of the piling web, as in the straight-web types, and at the same time have the

vided. Shaft boxes are integral, with truck castings. Caps are matched, and are interchangeable for drum and intermediate shafts. Bearings are cast iron,



LACKAWANNA STEEL SHEET PILING. SECTIONS FOR CORNERS.

material so distributed as to produce the required lateral strength.

For constructions requiring high tensional and compressive strength, in connection with a fairly high transverse strength, the center flange type shown

with babbitted shells except axle bearings, which are bronze. Bearings are machined to gauge, turned on outside and fitted into bored boxes. The large bosses prevent turning. Lubrication is furnished by grease cups.



SHOWING FLEXIBILITY FOR EVADING OBSTRUCTIONS.

may be preferred. The center flange acts as a stiffener, increases the section modulus and furnishes means for attaching transverse ties, braces, etc., needed in spe-

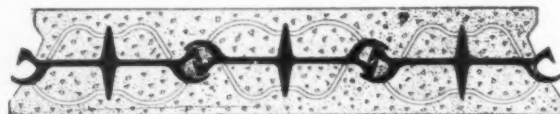
The trolley frame consists of two cast trucks, which are connected by means of a cast separator, all surfaces fitting together being machined. Each end of separator



ARCHED WEB STEEL SHEET TYPE.

cial work, and for the mechanical bond of the concrete facing in protected piling. One of the methods of protecting this piling with reinforced concrete is also illustrated. The company has issued

rests on a ledge extending from the trolley side which eliminates shear in connecting bolts, this being a regular feature of the Whiting trolley. A large platform is provided for mounting motors and operating



CENTER FLANGE TYPE AND REINFORCED CONCRETE PROTECTION.

Bulletin 105, in which the subject is extensively treated by descriptions and illustrations. It will be sent to interested persons on request.

#### Enclosed Gearing for Electric Cranes.

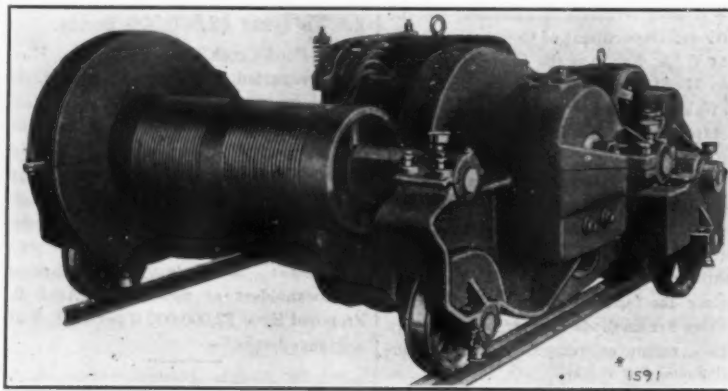
The new design of inside and enclosed gearing trolley as manufactured by the Whiting Foundry Equipment Co., Harvey, Ill., is shown in the accompanying illustration. The capacity of the trolley shown is 10 tons.

The gears are inside the main bearings of the shafts, thus preventing gears working off shafts and falling below. The frames of trolley trucks are of I-beam section. Bolts for holding on caps extend through the flanges, permitting a common bolt to be used and making them very accessible. The mechanical brake of the hoisting mechanism is contained in a pocket in the truck. Any necessary adjustments can be made without removing the covers.

There are only two reductions of gearing from motor to trolley axle. When used with dynamic braking, the mechanical brake is omitted. Gear cases are of cast iron, with horizontal machined joints. Liberal opening is provided in each case for inspection and lubricating gearing, and practical covers and fastenings are pro-

vided. Shaft boxes are integral, with truck castings. Caps are matched, and are interchangeable for drum and intermediate shafts. Bearings are cast iron,

mechanism, and permits attendant to inspect operation easily. The simplicity of the wiring is notable. Hoies in the trolley separator are provided, and wires lead directly from the motors to the collector brackets attached



ENCLOSED GEARING TROLLEY FOR ELECTRIC CRANES.

to poles supported below the trolley frame. A limit switch, operated by the block itself, is furnished in connection with the hoisting mechanism. Modifications in construction are made to meet special conditions of customers and requirements of mill service.

rescue cars. They are being used by oil companies in various refineries; also in powder handling, and in the holds of ships where ammunition or other explosive or inflammable materials are stored.

This lamp also has an important bearing on the great amount of welfare work

#### Hirsch Electric Miner's Lamp.

The extensive use of the electric miner's lamp, manufactured by the Hirsch Electric Mine Lamp Co., 221 N. 23d street, Philadelphia, Pa., has resulted from the practical demonstrations of its many advantages since it was first introduced in 1909.

The Hirsch lamp is a storage battery lamp, as shown in the illustration, designed for the use of mine employees, and has been developed largely through the interest of some of the important coal companies in their work of securing safety, and at the same time obtaining more light than the ordinary safety lamp affords. The Lehigh Coal & Navigation Co., Phila-

which is being carried on in behalf of the employees in mines and similar work, on account of its freedom from excessive heat and elimination of injurious fumes which have a tendency to produce "miner's asthma." It gives a steady and bright light, thus doing away with the flickering oil lamp which causes eye strain.

As a practical result of the favorable conditions for the workmen by the use of this lamp, greater efficiency is obtained and a greater amount of work is performed. Explosions from fire damp are also prevented and danger of starting fires with lamps in mines is eliminated. The storage battery used measures 2x3x4 inches, weighs but two pounds, and has



HIRSCH ELECTRIC MINER'S LAMP.

delphia, has used a large number of these lamps, and only recently ordered 1000 more of them. The first outfit was tried out by the Lehigh company, and in 1910 the Philadelphia & Reading Coal & Iron Co., Philadelphia, made successful demonstrations of its use and advantages. Since that time the lamp has undergone various improvements, until now, after an expenditure of over \$25,000 in research and experimental work, it has reached its present form.

The Hirsch lamps are found in extensive use in various other fields. The United States Government uses them in much of its experimental work and on

been especially developed for use with this lamp to produce lightness and at the same time to be subject to rough handling. A charge lasts about 14 hours, and it is claimed the cost of maintenance is less than for oil safety lamps. In case the wires should become broken, the lamp can be removed from the cap and attached to the battery by means of a socket provided for the purpose, and the lamp is then used as a hand lamp.

#### Supply and Machinery Men.

Secretary-Treasurer F. D. Mitchell of the American Supply and Machinery Manufacturers' Association has issued a circular letter under date of March 29 stating that President N. A. Gladding of Indianapolis announces that the triple joint convention of the National Supply and Machinery Dealers' Association, the Southern Supply and Machinery Dealers' Association and the American Supply and Machinery Manufacturers' Association will surely be held, according to program, at Indianapolis April 10-12. He adds:

"Naturally we are all very much gratified at this good news with regard to our convention, but I am certain that everybody will be happier still that this telegram of Mr. Gladding indicates that our Indianapolis friends are recovering rapidly from their disaster and are aiming to provide a welcome for us even heartier than otherwise would be the case."

The Pennsylvanian, the fourth of the eight American-Hawaiian liners under contract by the Maryland Steel Co., was launched last Saturday at Sparrows Point, Md.



# Construction Department

## TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following statements:

### EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and in some items it is found advisable to make statements as "it is reported" or "rumored," and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

### HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur.

### WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular. In most instances a return postal card or addressed and stamped envelope should be enclosed with letter.

In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription to the Daily Bulletin is included for the contract period.

### BRIDGES, CULVERTS, VIADUCTS

Ala., Mobile.—Board of Revenue will construct reinforced concrete bridges and culverts on St. Stephens Rd.; bids opened April 7; plans and specifications may be seen at office of County Engineer, Room 11 Bank of Mobile Bldg., Mobile. (See "Machinery Wanted.")

Fla., Molino.—Special Road District of Santa Rosa county defeated bond issue to construct bridge across Escambia River at Molino. Address County Commissioners, Milton, Fla. (Recently mentioned.)

Ga., Americus.—Sumter county defeated \$90,000 bond issue to construct concrete bridges and steel culverts. Address County Commissioners. (Recently mentioned.)

Ga., Augusta.—Levee.—Canal and River Commission awarded contract to Virginia Bridge & Iron Co. of Roanoke, Va., at \$15,454 to construct steel-span bridge on 13th St., and to McKenzie Construction Co. of Augusta at \$3200 to build masonry pier for additional span in bridge.

Md., Hagerstown.—Norfolk & Western Railway, C. S. Churchill, chief engineer, Roanoke, Va., appropriated \$600,000 to construct bridges on Shenandoah Valley division between Hagerstown and Roanoke.

Md., Denton.—Caroline county will construct drawbridge in connection with building of 1.63 miles of State highway; William H. Anderson, Clerk. (See "Roads and Streets" and "Machinery Wanted.")

Miss., Purvis.—Lamar county votes April 7 on \$20,000 bond issue to rebuild bridges damaged by rains.

N. C., Charlotte.—Mecklenburg County Commissioners will construct 200-foot steel bridge across Paw Creek.

Tenn., Centerville.—Hickman county will erect concrete or steel bridge; receiving bids. Address County Commissioners.

Tenn., Knoxville.—J. E. Thompson, City Engineer, and W. B. Crenshaw, assistant engineer Southern Railway, Knoxville, will prepare plans for Park Ave. viaduct; reinforced concrete; double street-car tracks; Southern Railway and Knoxville Railway & Light Co. will pay two-thirds of cost and Knoxville and Park City remaining one-third. Mr. Crenshaw advises that street railway company, Southern Railway, corporation of Park City and corporation of Knoxville are jointly interested; plans being prepared and estimates made by engineering department of Southern Railway; contemplated to let contract soon; bridge perhaps 500 feet long and 50 feet wide.

Tex., Fort Worth.—Tarrant county receives bids until April 15 to construct recently-noted reinforced concrete bridges across Trinity River; Samuels Ave. viaduct to be 467 feet long, with 9 50-foot girder spans, roadway 30 feet wide, each sidewalk 5 feet wide; E. 4th St. viaduct 465 feet 4 inches long, 9 50-foot girder spans, roadway 30 feet wide, sidewalks 5 feet each; J. A. Mulholland, County Auditor. (See "Machinery Wanted.")

Tex., Houston.—City will construct reinforced concrete bridge on San Jacinto St. across ship channel; bids received until April 7; F. L. Dormant, City Engineer; Dan C. Smith, City Secretary. (See "Machinery Wanted.")

Tex., Houston.—City, H. B. Rice, Mayor, will construct reinforced concrete viaduct (recently noted) connecting Capitol Ave. and Rusk St. with Moore and Young Sts.; bids received until April 7 (extended date); F.

Va., Oak Grove.—Oak Grove Canning Co., capital stock \$10,000, incorporated; W. H. Guthridge, president; P. W. Pomeroy, vice-president; William Wilson, secretary.

### CLAYWORKING PLANTS

Fla., St. Petersburg.—Bricks, etc.—St. Petersburg Ornamental Stone & Brick Co., J. F. Brown, president, contemplates increasing capital stock from \$15,000 to \$25,000. (Recently reported incorporated.)

S. C., St. Stephens.—Bricks.—Santee River Brick Co., capital stock \$15,000, incorporated by W. R. Funk, C. E. Funk and S. W. Locklear.

Tex., San Antonio.—Tile.—Southwestern Sub-Irrigation Tile Co., J. W. Schuchardt, manager, 1111 S. Medina St., will erect 42x50-foot ironclad building; machinery order placed; will manufacture porous tile for sub-irrigation.

Va., Brodnax.—Brick and Tile.—Chase Brick & Tile Corporation, capital stock \$10,000, chartered; F. N. Malory, president; C. B. Chase, general manager, both of Lawrenceville, Va.; B. D. Pennington, secretary-treasurer, Brodnax; is installing machinery with daily capacity of 20,000 bricks.

### COAL MINES AND COKE OVENS

Ky., Harlan.—Martins Fork Coal Mining Co. (recently noted incorporated, capital stock \$20,000) will develop 600 acres; W. F. A. Gregory, president; G. W. Creech, vice-president; H. M. Brock, secretary; W. A. Brock, treasurer; install general mining machinery. Address President or Secretary. (See "Machinery Wanted.")

Ky., Pike County.—Pond Creek Coal Co., executive offices at 55 Congress St., Boston, Mass., is reported as arranging \$2,000,000 bond issue to provide additional capital for continuing developments; has seven mines in

W. Va., Moundsville.—Parrs Run Coal Works will rebuild tipples; 30x40 feet; fire-proof construction; cost \$1000; construction by company. (Recently reported burned.)

W. Va., Wheeling.—Richland Coal Co., J. C. McKinley, president and manager, purchased Beech Bottom Coal Co.'s property and will install additional machinery to cost \$25,000; will have annual capacity 300,000 tons; also plans to erect 50 dwellings.

### CONCRETE AND CEMENT PLANTS

Ala., Village Springs.—Portland Cement, etc.—Blount Mountain Cement, Coal & Lime Co. organized with \$2,000,000 capital stock; president, J. C. McGinnis of Frackville, Pa.; vice-president, C. A. Snyder; secretary, Alfred V. Weaver; treasurer, P. J. Costello of Philadelphia, Pa.; consulting engineer, Richard K. Meade of 202 N. Calvert St., Baltimore, Md.; will build \$750,000 plant for daily capacity 1500 barrels Portland cement, designed for immediate doubling; to include 44x80-foot kiln building, 4 upright kilns, 62x90-foot stockhouse, 44x64-foot hydrator building, etc.; all buildings of steel and concrete construction; also construct \$100,000 plant with daily capacity 50 tons hydrated lime; also erect \$50,000 plant with daily capacity 1000 tons fluxing stone; electrical drive throughout; company will do its own construction under direction of Mr. Meade, who has charge of all purchases; owns 3595 acres containing limestone, shale and coal; will retain coal land for future development; executive offices at 419 Mint Arcade, Philadelphia, Pa.

Okla., Oklahoma City.—Silo Co.—Oklahoma Concrete Silo Co., 304 Empire Bldg., is State agent for Polk system for building concrete silos; J. W. Maney, president; E. H. Lincee, vice-president and general manager. (Recently noted organized.)

Tex., Yorktown.—Cement Bricks.—C. B. Lutenbacher will build cement brick factory; ultimate daily capacity 10,000 bricks.

### COTTON COMPRESSES AND GINS

La., Rayne.—Company acquired old Chapuis cotton gin; will remodel and operate; also install rice milling plant and grist machinery; Philip Darce will be manager.

Okla., El Reno.—R. W. Thompson will erect 29x53-foot cotton gin recently noted; install 2-70-saw gin outfit; daily capacity, 15 bales of cotton. (See "Machinery Wanted.")

Tex., Bishop.—Bishop Ice & Gin Co. will build 8-stand cotton gin. (See "Ice and Cold Storage Plants.")

Tex., Royce.—Farmers Gin Co. (recently noted incorporated, capital stock \$10,000) will erect building for 5-80-saw gin; install machinery costing about \$6500; capacity, 50 bales 12 hours; W. A. Wesson, president; W. S. Sharp, secretary-treasurer.

Tex., Houston.—Magnolia Warehouse & Storage Co. changed name to Magnolia Compress & Warehouse Co. and increased capital stock from \$150,000 to \$600,000.

Tex., Lytle.—S. B. Killbrow will build eight-stand cotton gin.

Tex., Berclair.—Berclair Gin Co. will remodel cotton gin and equip with eight gin-stands; also install engine and boiler.

Tex., Brownwood.—Farmers' Union Gin Co. will build four-stand cotton gin; awarded contract for machinery.

Tex., Lockhart.—Lipscomb Gin Co. will build all-steel stand cotton gin; one story and basement; cement foundation.

Tex., Paris.—T. A. Johnson of Paris, Eugene Blocker of Honey Grove, Tex., and associates organized company to build cotton compress and warehouse.

Tex., Somerset.—R. F. D. from Atascosa.—Farmers' Union Gin Co., capital stock \$7000, incorporated by L. S. Morrison, Charles Fischer and A. M. Pryon.

Tex., Taylor.—Slavonic Association of Williamson County, capital stock \$5000, organized with Joe Cuba president, Thomas Drozda vice-president, J. P. Mohel secretary, J. S. Merka treasurer; purchased cotton gin near Taylor, Tex., and will purchase or build gins at Granger, Circleville, etc.

Tex., Tivoli.—Refugio Land & Irrigation Co. will build cotton gin; cost \$10,000.

## PROPOSAL ADVERTISEMENTS

IN THIS ISSUE ARE

PUBLISHED ON PAGES 94 and 95

In order to secure best bids from leading engineers, contractors and investment houses, the proposal advertising columns of the Manufacturers Record are invaluable.

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L. Dormant, City Engineer. (See "Machinery Wanted.")

Va., Fredericksburg.—Spotsylvania county will construct reinforced concrete bridge and approaches; bids received until April 10 by Board of Public Roads, care of M. B. Rowe; S. C. Liggett, engineer, Fredericksburg; P. St. J. Wilson, State Highway Commissioner, Richmond, Va. (See "Machinery Wanted.")

### CANNING AND PACKING PLANTS

Ark., Berryville.—Berryville Canning Co. (previously noted incorporated, capital stock \$10,000) will erect 50x100-foot mill-construction building; no bids; engine-room, 35x40 feet; install canning machinery; J. E. Reynolds, president; J. A. Bobo, secretary-treasurer.

Ga., Moultrie.—O. A. Thaxton is interested in establishment of plant to can sweet potatoes, vegetables, etc. (See "Machinery Wanted.")

Ky., Eubank.—Eubank Canning Co. organized by Hastings Industrial Co. of Chicago, Ill.; Samuel T. Webb, special agent at Eubank.

La., Covington.—St. Tammany Canning Co. is being organized; Dr. W. L. Stevenson is interested. (See "Machinery Wanted.")

Md., Tilghman.—Tilghman Packing Co. will build plant; James Cooper is contractor.

Miss., Newton.—Newton Canning Factory, capital stock \$50,000, organized with W. H. Chambliss, president; W. E. Sansing, vice-president, and J. R. Rowzee, secretary; will establish cannery; first year will can sweet potatoes only; machinery ordered. (Recently noted.)

N. C., Manteo.—Theodore Meekins is interested in establishment of cannery, etc. (See "Ice and Cold-storage Plants.")

progress of development, and plans to begin three additional openings; F. W. Batchelder, treasurer, wires Manufacturers Record; "Bonds subject to approval of stockholders at meeting on April 9." (Previously mentioned.)

Md., Frostburg.—Stanton Georges Creek Coal Co. (previously noted incorporated, \$50,000 capital stock) will develop 550 acres; estimated capacity, 250 tons; mining machinery bids opened April 1; Louis Stanton, president and manager; Gustavus Stanton, vice-president; Wm. T. Stanton, secretary-treasurer.

Okla., Castle.—Castle Lumber & Coal Co. incorporated by John McKernan and others. (See "Lumber Manufacturing.")

Tenn., Jellico.—Interstate Coal Co. (through S. R. Jennings, president) purchased property of Smith-Jellico Coal Co.; about 1000 acres; also taking over lease on this property held by Anchor Coal Co.

West Virginia.—Kendall Lumber Co., House Bldg., Pittsburgh, Pa., will probably commence development work in August on previously-noted coal mines. (See "Lumber Manufacturing.")

W. Va., Dixcopa.—Lake Superior Coal Co. (subsidiary to Lake Superior Co.), Sault Ste. Marie, Ont., Canada, purchased Dixon-Pocahontas Coal Co. for amount exceeding \$500,000; purchase includes extensive coal lands, mines of large capacity, etc.; will continue development in connection with Cannelton Coal & Coke Co., also owned by Lake Superior corporation.

W. Va., Hardman (not a postoffice).—Gordon B. Late, Bridgeport, W. Va., and James H. Irving of Independence, W. Va., leased coal rights on about 900 acres land in Preston county.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## COTTONSEED-OIL MILLS

Ala., Florence.—J. D. Mitchell, Spring Valley, Ala., is interested in previously-noted Colbert County Oil & Fertilizer Co., which is establishing plant at Tusculumbia; will not establish plant at "Florence," as was recently incorrectly stated. (See Ala., Tusculumbia.)

Ala., Tusculumbia.—Colbert County Oil & Fertilizer Co. (previously reported capitalized at \$50,000) advises will build two-press mill and a fertilizer plant with capacity of 100 tons per 24 hours; J. T. Kirk, president; W. G. Halsey, vice-president; W. P. Walling, superintendent and manager.

La., Gibsland.—Gibsland Oil & Fertilizer Co. will erect additional buildings and install machinery.

La., St. Joseph.—Tensas Cotton Oil & Manufacturing Co., E. Steinhardt, New Orleans, La., president, will probably rebuild mill recently reported burned at estimated loss of \$60,000.

Tenn., Huntingdon.—Tennessee Cotton Oil Co., Nashville, Tenn., will build cotton gin; C. M. Towers to be local representative.

Tex., Austwell, P. O. at Tivoli.—R. R. Austin and associates organized company with \$65,000 capital stock to establish cottonseed-oil mill.

Tex., Mineola.—Mineola Cotton Oil Co. will build cottonseed-oil mill; fireproof; brick; concrete floors; cost \$60,000.

## DRAINAGE AND IRRIGATION

La., Gretna.—Jefferson Plaquemines Drainage District, George A. Hero, president, 309 Cotton Exchange Bldg., New Orleans, La., advises further relative to previously-described work: Construction of 12-mile levee from Mississippi River at Harvey Canal to same river at lower line of Cedar Grove plantation, will complete enclosure of 37,700 acres with levees; some existing bayous and canals within this area to be enlarged; pumping station to be located at intersection of Harvey Canal and Bayou Barataria; pumping machinery (contract let to A. Baldwin & Co., New Orleans) to have ultimate capacity of 900,000 gallons per 24 hours; excavation to be commenced within few days; contracts for dredge and levee work let within next 30 days; J. F. Coleman, New Orleans, consulting engineer; associate engineer for mechanical engineering details, Walter Castaneda of New Orleans. (Further details previously noted.)

Miss., Durant.—P. M. Elmore of Durant, L. S. Rogers and C. D. Alexander of West, Miss., and others appointed committee to make preliminary arrangements for drainage of Big Black River swamp lands from Alabama and Vicksburg Railway crossing to Montgomery county; about 90,000 acres subject to overflow.

Tex., Aldine.—L. H. Livingston is interested in establishment of drainage district No. 7, to embrace about 60,000 acres.

Tex., San Antonio.—Winter Garden Irrigation Co., capital stock \$100,000, incorporated by Alexander Boynton, William George and M. E. Lindheimer.

Tex., Wharton.—Drainage District No. 2 of Wharton county sold \$50,000 of bonds for drainage improvements. Address County Commissioners.

## ELECTRIC PLANTS

Ala., Fort Payne.—L. C. Nichols of Alabama Cooperaage Co. leased Alabama Electric Service & Light Co.'s franchise and plant for five years; will remove power plant from present location on Lookout Mountain to cooperaage plant in city, place new wiring, etc.

Ark., Sulphur Springs.—City awarded contract to R. M. Galbraith of Pine Bluff, Ark., at \$19,161 to construct electric-light plant and water-works; A. C. Moore, engineer, Independent Bldg., Joplin, Mo. (See "Water-works.")

Fla., Bradentown.—Southern Utilities Co., J. G. White Management Corporation of New York, operating managers, 1110 Heard National Bank Bldg., Jacksonville, Fla. (recently noted incorporated to own and operate electric, ice, gas and water properties in Florida, etc.), will have main office at Kissimmee, Fla., and management office in Jacksonville. (For description of properties purchased, etc., see "Ice and Cold-Storage Plants, Fla., Jacksonville.")

Fla., Davenport.—C. C. Farmer of Davenport, G. Klink, Adam Schoeberlin and I. I. Goldsmith of Aurora, Ill., organized company to establish lighting plant.

Fla., Hawthorn.—Hawthorn Manufacturing Co. will install machinery for electric plant.

Fla., Pensacola.—Frank Reilly, Mayor, states City Council appointed committee to obtain data relative to electric plants in other cities, but nothing definite has been decided as to construction of municipal plant recently noted.

Fla., Tallahassee.—City votes April 15 on \$9000 bond issue to extend electric light, water and gas plants; D. M. Lowry, Mayor.

Fla., West Palm Beach.—Southern Utilities Co., 1110 Heard National Bank Bldg., Jacksonville, Fla. (purchasers), will install 500 K. W. turbo-generator in Ariston Ice & Electric Co. plant. (See "Fla., Jacksonville.")

Ga., Atlanta.—Franklin Light & Power Co. has authority of State Railroad Commission to issue \$150,000 of stock; plans to construct tower lines and furnish electricity to towns in Franklin, Hart, Madison, Banks, Jackson and Elbert counties. (Previously reported as organized, etc.)

Ga., Forsyth.—City will extend electric-light system. Address The Mayor.

Ga., Guyton.—City, Geo. T. Haywood, Mayor, will advertise bids on construction of electric-light plant if \$5000 bond issue (recently noted to be voted April 15) is carried. (See "Water-works.")

Ga., Marshallville.—City is having plans prepared by J. B. McCrary Company, Atlanta, Ga., for electric-light plant and water-works; estimated cost, \$20,000. J. O. Boon-ton, Mayor. (Recently mentioned.)

Ga., Whigham.—Town votes April 18 on \$6000 bond issue for electric-light plant. Address Town Clerk.

Md., Westport.—Consolidated Gas, Electric Light & Power Co., Lexington and Liberty Sts., Baltimore, Md., will make improvements; add 15,000 kilowatts to present capacity; proposed boiler-house extension, 97 feet by 80 feet by 50 feet high; reinforced concrete fireproof construction.

N. C., Durham.—Henry L. Doherty Company, 69 Wall St., New York, purchased stock of Durham Traction Co., operating local electric-lighting and ice plants and street railway; retain R. L. Lindsey as manager; company wires Manufacturers Record: "Have formulated no plans for improvements at Durham as yet."

N. C., Spencer.—City votes May 6 on \$50,000 bond issue for electric-light plant and water-works. Address The Mayor. (Recently mentioned.)

Okla., Stigler.—Stigler Electric Light & Power Co., capital \$15,000, incorporated by J. N. Ward, F. M. Ward and Claud C. Ward of Fort Smith, Ark.

S. C., McColl.—City voted bond issue for electric-light system; J. B. Rivens, Mayor. (Recently noted to vote \$10,000.)

S. C., Orangeburg.—City votes April 29 on \$60,000 bond issue to remove and erect light, power and water plant on municipal property adjacent to Edisto River. Address The Mayor. (Recently mentioned.)

Tenn., Arlington.—West Tennessee Construction Co. is lowest bidder at \$14,420 for construction of electric-light plant and water-works; R. C. Huston & Co., engineers, Memphis, Tenn.

Tex., Ennis.—Texas Light & Power Co., Dallas, Tex., purchased Ennis Ice, Light & Power Co.'s plant.

Tex., Orange.—J. E. Anderson, manager B. F. Sturtevant Company, Chicago, Ill., may be addressed relative to erection of power plant for Luther Memorial Presbyterian Church; Mr. Anderson has charge of both ventilating system and electric plant. (Recently noted.)

Tex., Seadrift.—City granted franchise to G. E. Fusell of Eagle Lake, Tex., to build electric-light plant; also install ice plant in connection.

Tex., Sulphur Springs.—B. F. Ashcroft & Sons will improve electric-light plant; erect brick buildings and install additional machinery.

Va., Richmond.—Richmond, Fredericksburg & Potomac Railroad, S. B. Rice, engineer maintenance of way, will repair brick power plant at Bolton shops; cost \$4500.

W. Va., Martinsburg.—Martinsburg Power Co. decided to increase capital stock from \$1,500,000 to \$5,000,000; company's auditor, Geo. R. Harlow, writes to Manufacturers Record: "Plans not advanced far enough for publication."

## FERTILIZER FACTORIES

Ala., Florence.—J. D. Mitchell, Spring Valley, Ala., is not promoting plant at Florence as was recently stated; is inter-

ested in proposed plant at Tusculumbia. (See "Cottonseed-Oil Mills, Ala., Tusculumbia.")

Ala., Tusculumbia.—Colbert County Oil & Fertilizer Co. (previously noted) will establish fertilizer plant with daily capacity of 100 tons per 24 hours; W. P. Walling, superintendent and manager. (See "Cottonseed-Oil Mills.")

La., Gibsland.—Gibsland Oil & Fertilizer Co. will erect additional buildings and install machinery.

Va., Reedville.—Morris-Fisher Company increased capital stock from \$300,000 to \$500,000.

Tenn., Franklin.—Franklin Fertilizer Co., J. E. Rhodes, president (recently noted incorporated, capital stock \$10,000), will erect \$5000 ordinary-construction building by company force; purchased machinery, cost \$5000; manufacture ground limestone and ground phosphate.

## FLOUR, FEED AND MEAL MILLS

N. C., Asheboro.—Southern Crown Milling Co. purchased plants of Southern Milling Co. and Crown Milling Co. and will continue operations; C. J. Cox, president; C. C. Crawford, vice-president; J. T. Winslow, secretary; W. F. Redding, treasurer. (Recently noted incorporated with \$50,000 capital stock.)

N. C., Turnersburg.—Stimpson & Steele will install additional roller mill machinery; equipment ordered.

Okla., Madill.—Marsh Milling & Grain Co. contemplates establishment of 100-barrel flour mill.

Va., Childress.—W. B. Palmer will rebuild mill recently noted burned; erect 36x40-foot \$2000 galvanized-iron building; construction by owner; install ball-bearing flour-mill machinery.

## FOUNDRY AND MACHINE PLANTS

Ga., Tifton.—Harrows.—J. L. Hering advises that Tifton Foundry & Machine Co. (recently noted to add equipment to manufacture harrows) has closed contract with John H. Brown of Scott county, Missouri, for exclusive (Southern) manufacture of his patented harrow; 50,000 or more annually; Tifton company will need additional building, machinery and material; increase capital stock from \$25,000 to \$50,000; machinery contracts (cost about \$10,000) now being placed; plans for new building to be decided within few days. (Lately mentioned.)

Ky., Lexington.—American Foundry Co. will build addition to plant; 66x80 feet; one story; brick.

La., Opelousas.—Cotton Compresses.—Hyman, Hiller & Co. are reported as interested with New York, New Orleans and Paris capitalists in plan to organize company, capitalized at \$20,000,000 to \$25,000,000, to manufacture and introduce Luce cotton compress for use at cotton-ginning plants.

N. C., Raleigh.—Machinery, etc.—General Manufacturing & Investment Co., capital stock \$25,000, incorporated by Grover C. Glenn, W. T. Wrenn and Murray Allen.

Tex., Gainesville.—Iron.—Cal Arnett of Gainesville and C. B. Ellledge of Houston, Tex., will establish iron foundry.

## GAS AND OIL ENTERPRISES

Fla., Tallahassee.—Gas Plant.—City votes April 15 on \$9000 bond issue to extend gas, water and electric-light plants; D. M. Lowry, Mayor.

Ga., Cordele.—Gas Plant.—City is considering proposition of W. K. Sloan, editor Swedesboro (N. J.) News, representing Eastern capitalists, to establish gas plant.

Ga., Lagrange.—Gas Plant.—City engaged James Nesbit Hazlehurst of Atlanta, Ga., to prepare plans and specifications and supervise construction of gas plant; cost \$50,000 to \$150,000. (See "Water-works.")

Ga., Macon.—Gas Plant.—W. Jordan Massee, president Georgia Public Service Co., is interested in proposed establishment of gas plant.

Ky., Paris.—J. T. Hinton, Mayor, states that Central Kentucky Natural Gas Co. is proposing to pipe natural gas from West Virginia. (City noted in February as inviting franchise bids to furnish natural gas; T. G. Stuart, Winchester, Ky., also then noted as submitting a proposition.)

Ky., Pike County.—Poplar Creek Oil Co., capital stock \$30,000, incorporated by John H. Holt, H. C. Duncan, Jr., W. K. Cowder, Homer E. Holt and S. R. Heffly, all of Huntington, W. Va.

La., Lake Charles.—Bright Oil Co., capital stock \$25,000, incorporated by C. P. Martin and Harold Rock of Lake Charles, J. G. Sut-

ton and H. Avery of Vinton, La., and W. M. Lucas of Edgerley, La.

La., New Orleans.—Louisiana Oil Co., capital stock \$10,000, incorporated; Minor C. Keith, president; C. H. Ellis, vice-president; William Leftwich, secretary-treasurer; will develop oil lands.

Okla., Bartlesville.—Benjamin Oil Co., capital \$10,000, incorporated by L. A. Rowland, J. D. Talbott and Peter Q. Nyce.

Okla., Bartlesville.—Jay Bee Oil Co., capital \$10,000, incorporated by John H. Brennan, Otto Massey and Hayes McCoy.

Okla., Bartlesville.—Edith Oil Co., capital \$10,000, incorporated by H. C. Moore, J. C. Fowler and Edith M. Fowler.

Okla., Bartlesville.—Lauderdale Oil Co., capital \$25,000, incorporated by L. A. Rowland, J. D. Talbott and Peter Q. Nyce.

Okla., Cushing.—Refinery.—Colonial Refining Co., capital stock \$100,000, incorporated by Roy B. Jones of Cushing, J. H. Cosdon of Tulsa, Okla., and Frank Brown of Independence, Kans.

Okla., Chickasha.—Hutson Oil & Gas Co., capital \$10,000, incorporated by L. C. Hutson, K. W. Wootten, E. C. Burton and others.

Okla., Okmulgee.—Perry-Boyd Drilling Co., capital \$5000, incorporated by Harry Boyd, Bunyan A. Baker and O. D. Stansbery.

Okla., Omega.—Omega Oil, Gas, Mineral & Coal Co., capital stock \$15,000, incorporated by A. C. Aborn, M. B. Leach, G. T. Wadsworth and others.

Okla., Oklahoma City.—P. B. M. Oil Co., capital \$25,000, incorporated by Ray McGreer, Fred Plank and W. F. Bland; Mr. McGreer, secretary; will develop; open drilling proposals at once. (See "Machinery Wanted.")

Okla., Oklahoma City.—Hite Oil & Gas Co., capital stock \$12,000, incorporated by J. N. Wells and R. R. Bell of Oklahoma City, J. L. Ransom of Hobart, Okla., and others.

Okla., Tulsa.—Fowler Drilling Co., capital stock \$5000, incorporated by Edwin L. Fowler, C. A. Bowen, John N. Day, E. T. Bowen and Thad O. Day.

Okla., Tulsa.—Westwood Oil Co., capital \$8000, incorporated by H. F. Sinclair, B. W. Sinclair and F. B. Ufer.

Okla., Tulsa.—Cheyenne Oil Co., capital \$12,000, incorporated by H. F. Sinclair, E. W. Sinclair and F. B. Ufer.

Okla., Tulsa.—Anticline Oil & Gas Co., capital \$150,000, incorporated by Robert N. C. Taylor, George W. Taylor and Charles W. Glines.

S. C., Rock Hill.—Gas.—City Council granted franchise to Kuemmerle & Co. of Philadelphia, Pa., to build gas plant; C. H. Chertberg of Rock Hill represents company. (Recently mentioned.)

Tex., Austin.—Austin Gas Light Co., H. M. Moore, manager, awarded contract to Gas Machinery Co., Cleveland, O., and Kenwood Bridge Co., Chicago, Ill., to erect auxiliary coal-gas plant; length of pipe line, 57 miles, 2-inch to 12-inch pipe; capacity of pumping station, 700,000 cubic feet per day. (Recently noted.)

Tex., Hearne.—R. W. Marshall and associates will incorporate company to drill for oil and gas.

Tex., Paducah.—Paducah Oil & Gas Co., capital stock \$16,000, incorporated by D. E. Jordan, L. W. Fry and J. M. Barron.

Tex., Port Arthur.—Gas Plant.—Port Arthur Gas Co., capital stock \$100,000, incorporated by W. E. Sipe, G. H. Eubank and Geo. M. Craig.

W. Va., St. Marys.—Pipe Line.—High Grade Pipe Line Co. incorporated by L. P. Walker, W. H. Guth, Alexander Russell, Robert W. Russell and others.

## ICE AND COLD-STORAGE PLANTS

Ala., Anniston.—F. W. Ledbetter and associates will not erect plant at Anniston; recently-noted plant is same as that of Sylacauga Ice & Coal Co. of Anniston and Sylacauga, Ala. F. W. Ledbetter, president; the plant is at Sylacauga, and was recently described with machinery purchased.

Fla., Fort Myers.—Southern Utilities Co., 1110 Heard National Bank Bldg., Jacksonville, Fla. (purchasers), will install 40-ton motor-driven compressor in Seminole Ice & Power Co. plant. (See "Fla., Jacksonville.")

Fla., Hawthorn.—Hawthorn Manufacturing Co., organized by W. E. Holmes, will continue ice plant and add cold-storage department; also will install machinery for planing mill, veneer mill, electric plant, water-works, etc.



Fla., Jacksonville.—Southern Utilities Co. (J. G. White Management Corporation of New York, operating managers), management office, 1110 Heard National Bank Bldg., Jacksonville, and main office, Kissimmee, Fla., recently noted incorporated (under "Electric Plants," Fla., Bradentown) to own and operate electric, ice, gas and water properties in Florida, advises Manufacturers Record that list of properties purchased includes Florida East Coast Ice Co., Miami; Miami Ice & Cold Storage Co., Miami; Fort Lauderdale Ice & Light Co., Fort Lauderdale; Ariston Ice & Electric Co., West Palm Beach; Fernandina Ice Works, Fernandina; St. Augustine Ice Works, St. Augustine; Palatka Ice Factories (both plants), Palatka; Seminole Ice & Power Co., Fort Myers; De Sota Manufacturing Co., Punta Gorda; Arcadia Ice & Electric Co., Arcadia; Manatee Electric Co., Bradentown; Polar Ice & Light Co., Tarpon Springs; Sanford Light & Fuel Co., Sanford; Sanford Ice & Water Works, Sanford; Lake City Ice Co., Lake City; Live Oak Ice Co., Live Oak; Live Oak Electric Co., Live Oak; Moore Ice Co., Pensacola; W. S. Garfield & Co., Pensacola; organization not perfected; H. C. Adams, general manager, operating office; company has authorized capital stock of \$10,000,000; improvements are not all definitely decided, but will include addition of 25-ton ice plant at Punta Gorda; installation of 40-ton ice plant in Miami Ice & Cold Storage Co.'s plant at Miami; 40-ton motor-driven compressor in Seminole Ice & Power Co.'s plant, Fort Myers; 500-kilowatt turbo-generator in Ariston Ice & Electric Co.'s plant, West Palm Beach; J. G. White Management Corporation is purchasing machinery, and has already received bids on most of required equipment. (See "Machinery Wanted.")

Fla., Jacksonville.—Southern Ice Co. will erect three-story brick addition on Davis St.; cost \$6000.

Fla., Miami.—Southern Utilities Co., 1110 Heard National Bank Bldg., Jacksonville, Fla. (purchasers), will install 40-ton ice plant in Miami Ice & Cold Storage Co. plant. (See "Fla., Jacksonville.")

Fla., Punta Gorda.—Southern Utilities Co., 1110 Heard National Bank Bldg., Jacksonville, Fla. (purchasers), will add 25-ton ice plant to De Sota Manufacturing Co. plant. (See "Fla., Jacksonville.")

N. C., Durham.—Henry L. Doherty Company, 60 Wall St., New York, purchased Durham Traction Co., which operates local ice plant, etc. (See "Electric Plants.")

N. C., Manteo.—Theodore Meekins is interested in establishment of ice, fish-refrigerating and canning plant; plans to organize company with \$300,000 capital stock. (Plant recently reported to be built by J. D. Lloyd of New York and associates.)

Tenn., Cleveland.—Cleveland Ice & Cold Storage Co., capital stock \$50,000, incorporated by J. H. Allison, H. W. McCall, J. H. Wilson and others.

Tex., Bishop.—Bishop Ice & Gin Co. will build 15-ton ice plant and 8-stand cotton gin; cost \$25,000.

Tex., Ennis.—R. C. Storrie will enlarge and improve ice plant.

Tex., Marshall.—Marshall Ice Co., capital stock \$165,000, incorporated by E. L. Wells, Jr., Marvin Turney and Emory Fry.

Tex., Seadrift.—G. E. Fusall of Eagle Lake, Tex., will install ice plant. (See "Electric Plants.")

#### LAND DEVELOPMENTS

Ala., Birmingham.—Plainview Land Co., capital stock \$500, incorporated; C. B. Rogers, president; A. J. Odum, vice-president; G. B. Tarrant, secretary-treasurer.

Ala., Samson.—Geneva County Farm Lands Co., incorporated; capital stock \$5000; acquired 10,000 acres cut-over land in Geneva county; contemplates planting land and selling as a whole; J. I. Robbins, president; W. E. Foshee, vice-president; C. M. Stevens, secretary-treasurer.

Ark., Bradley.—Bradley Plantation Co., capital stock \$10,000, incorporated by W. S. Damer, H. L. Drane and Lem Banks.

Ark., Fort Smith.—Country Club Realty Co., Harry E. Kelly, president (recently noted incorporated, capital stock \$50,000), will develop 116 acres as golf grounds.

Fla., Headwater (not a postoffice).—Modern Land Co., Dr. E. C. Chambers, president and general manager, and William Kent, secretary-treasurer, Suite 524 Midland Bldg., Kansas City, Mo., advises is subdividing 40,000-acre tract in Osceola and Polk counties into quarter sections and smaller tracts; also laying out proposed townsite of "Headwater," at head of Kissimmee River; will

(within 60 days) erect store building to contain postoffice and telephone exchange; contemplates erection of other buildings and cottages as needed. (Previously noted under Fla., Kissimmee.)

Fla., Miami.—City votes May 13 on \$5000 bond issue for public parks and docks; J. W. Watson, Mayor.

Fla., Tampa.—Tampa Land Co., capital stock \$15,000, incorporated; W. C. Hodge, president; Ed. Howell, vice-president; Marshall Moore, secretary-treasurer.

Ga., Savannah.—Oatland Island Improvement Co., capital stock \$100,000, incorporated by J. C. Geiger and associates; purchased Oatland Island of about 4000 acres in Chatham county for about \$30,000, and will develop; plans to grow vegetables, corn, oats, rice, etc.; raise cattle and hogs, establish large dairy, etc.; property includes 1600 acres of high ground and 1800 acres old rice field ground.

Md., Baltimore.—Isaac H. Sayman, 729 Linwood Ave., Tuxedo Park, Baltimore, purchased six acres land on Reisterstown Rd. between Rogers and Mortimer Aves.; will develop as residential suburb.

Md., Baltimore.—Belmont Realty Co., organized by Charles K. Swartz, professor, Johns Hopkins University, Windsor Mill Rd., Walbrook, and associates; will acquire Tuscum in Walbrook section and develop; awarded contract to Hines & Hayman, 407 Builders' Exchange Bldg., Baltimore, to improve Alto Ave. from Montgomery Rd. to Lyndhurst Ave.

Mo., St. Joseph.—Sparta Land Co., capital stock \$25,000, incorporated by Margie E. Dunneson, Susan Lawrence and Eugene Silverman.

N. C., Charlotte.—George R. Bryce and A. Cole Blanton purchased land and will develop as residential suburb.

N. C., Mount Airy.—Granite City Orchard Co., capital stock \$25,000, incorporated by A. V. West, J. M. Hill, T. H. King and W. G. King.

S. C., Charleston.—Granite Realty Co., capital stock \$50,000, incorporated by J. H. Armstrong and M. L. Baker.

S. C., Charleston.—Chiquola Realty Corporation, capital stock \$500, incorporated by C. D. Gadsden and H. L. Erickmann.

S. C., Charleston.—Dorchester Townsite Corporation, capital stock \$100, chartered by John D. Cappelmann and E. H. Cappelmann.

S. C., Spartanburg.—Glenn Springs Co., increased capital stock from \$250,000 to \$350,000.

Tenn., Memphis.—East View Land Co., capital stock \$10,000, incorporated by C. P. Twiford, J. J. Goodman, H. L. Coulter and others.

Tex., El Paso.—Rio Grande Valley Farms Co., capital stock \$200,000, incorporated by John T. McElroy, W. L. Tooley and J. H. Nations.

Tex., Houston.—Sylvan Beach Park Co., capital stock \$175,000, incorporated by G. D. Samuel, A. H. White and A. W. Lackey; will operate park at Sylvan Beach, etc.

Tex., San Antonio.—Gulf Counties Land Co., capital stock \$500, incorporated by P. H. Swearington, Jay E. Adams, R. A. Rowland and others.

Va., Bluemont.—Bluemont Orchard Co., capital stock \$30,000, incorporated; A. L. Quaintance, president, 1807 Phelps Pl.; Jesse R. Stone, vice-president, both of Washington, D. C.; W. L. Hall, secretary, Bluemont.

Va., Richmond.—Administrative Board appropriated \$10,000 for improvements at Chluborazo Park; proposes to build amphitheater playground; Charles E. Bolling, City Engineer.

W. Va., Charleston.—Kinniconick Land Development Co., capital stock \$100,000, incorporated by J. D. Steele, Harrison B. Smith, George F. Coyle and others.

#### LUMBER MANUFACTURING

Ala., Tuscaloosa.—John W. Corr of Gordo, Ala., will build planing mill; cost \$25,000.

Ala., Malone.—Reid Lumber Co., S. A. Reid, president, American Trust and Savings Bank Bldg., Birmingham, Ala., purchased 500 acres timber land in Randolph county; will build small sawmill unit; dry-kiln and planer; no prices wanted. (Recently reported incorporated with \$30,000 capital stock.)

Arkansas.—R. Camahan, 1515 Inter Southern Bldg., Louisville, Ky., states he and associates purchased 25,000 acres timber land in Jefferson and Lonoke counties; will manufacture lumber, then sell farm lands; one-half of timber is white oak; will build few miles of railroad to connect with Cotton Belt Railroad.

Fla., Hawthorn.—Hawthorn Manufacturing

Co. will install machinery for planing and veneer mills.

Fla., St. Petersburg.—C. W. Kibler, Central Ave., and associates are organizing lumber company; will need machinery. (See "Machinery Wanted.")

Fla., Perrine.—Little Wolf Lumber Co., Manawa, Wis., purchased timber on 2160 acres land south of Perrine and will build sawmill for development.

Ky., Louisville.—Standard Lumber Co., capital stock \$200, incorporated by M. Matthey, Otto O'Bryan and others.

La., Farmerville.—Columbia Land & Timber Co., Stephens, Ark. (recently noted incorporated, \$200,000 capital stock), advises has purchased 11,000 acres timber lands in Louisiana; oak, cypress, red gum and pine; will buy and sell timber and timber lands, and establish mills and railroads; John F. Halton, president; John G. Wepfer, first vice-president; R. S. Warnock, second vice-president; Lloyd L. Tidwell, secretary-treasurer.

La., Lake Charles.—S. T. Woodring Lumber Co., capital stock \$30,000, incorporated by S. T. Woodring, M. M. Woodring, D. W. Woodring, J. M. Ragland and M. A. Heyer.

La., Lockport.—Waddell-Jones Company of Morgan City, La., leased timber land and will erect saw and shingle mill costing \$30,000; machinery purchased.

La., New Orleans.—Red Gum Lumber Co., capital stock \$50,000, incorporated with Sigmond Levi, president; Horace B. Turner, vice-president; A. J. Guesnon, secretary-treasurer.

La., Oakdale.—Forest Lumber Co., J. G. White, president, Kansas City, Mo., purchased 26,340 acres timber land near Oakdale in Allen and Evangeline parishes; will build double band sawmill, probably at Oakdale.

Md., Baltimore.—Theodore Mottu & Co., 1012-1022 Pennsylvania Ave., will build planing-mill; 20x35 feet; two stories; awarded contract to Cowan Building Co., 106 W. Madison St., Baltimore.

Md., Oakland.—Hicks & Sipe of Connellsville, Pa., purchased privilege to cut timber on 730 acres timberland in Garrett county; will install two sawmills; machinery purchased; daily capacity about 20,000 feet lumber.

Miss., Waynesboro.—J. F. Wordle of Scranton, Pa., representing syndicate, purchased 15,000 acres cut-over pine land between Waynesboro and Shubuta, Miss.; will divide into small farms and colonize.

Mo., Branson.—Branson Lumber Co., capital stock \$15,000, incorporated by Vernon C. Todd, Charles Bonsteel and Mamie E. Todd.

N. C., Columbia.—David F. Armstrong contemplates building sawmill. (See "Machinery Wanted.")

Okla., Castle.—Castle Lumber & Coal Co., capital \$500, incorporated by John McKernan, John G. Bakhaus of Castle and Oscar M. Ross of McAuliffe, Okla.

Okla., Randlett.—Alexander Lumber Co., capital \$15,000, incorporated by J. M. Alexander and R. V. Alexander of Randlett, E. B. Alexander and Mack Myers of Augusta, Kan.

Okla., Kiowa.—Hargrave-Burgin Lumber Co., capital stock \$6000, incorporated by Charles F. Hargrave, Dennis A. Burgin and John W. Brown.

S. C., Johnsonville.—Bultman & McCutchen of Sumter, S. C., will build lumber mill.

Va., Screemerville.—Henry Warden, Hazel Hill, Fredericksburg, Va., president of Fredericksburg Tl. Co. (recently noted), states company will have no plant; deals in ties.

Va., Warrenton.—Warrenton Planing Mill Co., contemplates rebuilding planing mills recently burned at loss of \$10,000 to \$12,000.

W. Va., Fairmont.—Potomac Lumber Co., incorporated by R. L. Long, Alexander R. Watson, John Y. White and others.

W. Va., Fairmont.—Forest Lumber Co. incorporated by John Y. White, R. M. Hite, Lloyd Bailey and others.

West Virginia.—J. L. Kendall, president of Kendall Lumber Co., House Bldg., Pittsburgh, Pa., advises Manufacturers Record as follows regarding previously-described development plans: Under company's contract, first eight miles of Cheat Haven & Bruceton Railroad should be completed by August 1, when company will begin erection of mill and opening of mines on railroad, upon which work is progressing; one trestle requires 1,500,000 feet of lumber. (Advices from company, noted in September, 1912, mentioned purchase of 20,000 acres timber and coal lands in Preston and Monongalia

counties, with proposed operation of mill of 50,000 feet daily capacity and two coal mines of 500 tons daily; investment about \$1,000,000.)

#### METAL-WORKING PLANTS

Mo., St. Louis.—Tin Falls.—Gus V. Brecht Butchers' Supply Co. awarded contract to P. J. Moynihan, 1916 Olive St., St. Louis, to erect tin-pail factory and warehouse; 114x78 feet; mill construction; cost \$9000; cost of machinery \$6000. (Recently noted.)

N. C., Conover.—Steel Wheels.—Jerome Bolick Sons Co. will enlarge plant and equip to manufacture patented steel wheels; company advises Manufacturers Record that Bolick Steel Wheel Co. has been incorporated; \$20,000 capital; wheels to be used exclusively by Piedmont Buggy Co. of Monroe, N. C., and Jerome Bolick Sons Co.

N. C., Whitney.—Aluminum.—The Southern Aluminum Co., whose plans for building a hydro-electric plant were previously reported to be enlarged, has now let contract to Hardaway Contracting Co. of Columbus, Ga., for the excavation of factory site and spillway and the building of a dam and powerhouse at the Narrows on Yaddin River; 177 feet head will be developed; the dam will be approximately 200 feet high and about 600,000 yards of masonry will be involved. The Hardaway Contracting Co. will establish modern, improved plant for handling the work. It is understood that the Southern Aluminum Co. expects to develop 220,000 horse-power. This is to be used in the manufacture of aluminum, plans for the buildings having been previously reported. The Manufacturers Record is advised that Hardaway Co. has bought 200,000 barrels of cement.

Okla., Blackwell.—Wire Fence.—Blackwell Wire Fence Co., capital stock \$50,000, incorporated by Dave Oliver of Blackwell, Andrew Hudson of Chanute, Okla., and J. T. Hudson of Pittsburg, Okla.

#### MINING

Ark., Van Buren.—Phosphate.—G. W. Scott of Scotland, Ark., is reported as to develop phosphate deposits.

Ga., Dahlonega.—Gold, etc.—Hand Mining Co., capital stock \$250,000, incorporated by Charles Sumner, Craig R. Arnold and others.

N. C., Asheboro.—Hannis Creek Mining Co., capital stock \$50,000, incorporated by W. H. Green and J. A. Spence of Asheboro, J. H. Brandt and O. W. Williams of Philadelphia, Pa.

Okla., Manitou, Route 4.—Deep Red River Mining & Milling Co. (recently noted incorporated with \$120,000 capital stock) will develop 720 acres of mining property; output not determined; A. J. Armour, president; O. E. Williams, vice-president; E. A. Williams, secretary; E. White, treasurer. (See "Machinery Wanted.")

S. C., Charleston.—Sand and Gravel.—Edisto Sand & Gravel Co., capital stock \$20,000, incorporated by T. C. Stevenson and J. A. McCormack.

Tenn., Jellico.—Zinc.—Ten-Okla Oil, Gas & Mineral Co., Cleveland, Okla. (recently noted to open zinc mines in Tennessee and Kentucky) states will develop between 10,000 and 15,000 acres near Jellico; date not set for opening machinery bids; M. A. Stockton, president; O. P. Mauck, secretary and present manager.

Va., Richmond.—Butterworth Quarries, capital stock \$50,000, incorporated; S. W. Meek, president; C. P. Bigger, secretary; G. A. Raby, treasurer.

Va., Castlewood.—Castlewood Quarry Co., capital stock \$10,000, incorporated by R. W. Dickenson, W. H. Headon, Charles H. Gibson and others.

#### MISCELLANEOUS CONSTRUCTION

Fla., Kissimmee.—Dock.—R. H. Ludlow, City Engineer, submitted plans for municipal dock; 324x700 feet; will require 1200 feet of seawall and 40,000 yards of filling; erect building 50x70 feet; steel construction. (Estimated cost recently noted as \$19,300.)

Fla., Miami.—Docks.—City votes May 13 on \$5000 bond issue for docks and parks; J. W. Watson, Mayor.

Fla., Miami.—Docks.—Forbes Pioneer Boat Lines Co., organized by F. A. Forbes and others, contemplates constructing docks at Ritta Island. (See "Miscellaneous Enterprises.")

Fla., Perry.—Log Dam.—Taylor County Lumber Co. has plans by Arthur Pew, consulting engineer, 619 Temple Court Bldg., Atlanta, Ga., for reservoir for holding logs.

Fla., Tampa.—Harbor.—Henry C. Long, Room 617 Tremont Bldg., Boston, Mass., writes to Manufacturers Record: "Have completed plan for harbor at Tampa giving

about 8½ miles of water front; compact and economical; equipped with railway connecting every wharf and dock with every other wharf, dock and railway; city is trying to arrange for municipal ownership of entire port."

Ga., Augusta—Levee.—River and Canal Commission awarded contract to A. J. Twigg & Sons at \$101,000 to build earthwork portion of levee from Hawks' Gulley to 6th St.; estimated quantity 250,000 cubic yards. (Call for bids lately noted.)

Ga., Savannah—Wharves, etc.—C. K. Lawrence, chief engineer, Central of Georgia Railway Co., Savannah, advises Manufacturers Record relative to reconstruction of wharves, etc.: "Cost about \$300,000; wharves to be constructed of piling cut off at low-water line, floored over, and constructed along dock front; balance of wharf and property to be filled in to elevation of floor in building; floor to be three-inch creosoted plank; wooden shed enclosed with corrugated iron 125x1120 feet, entire length of wharf; four tracks 450 feet long and 95 feet wide in rear of building; four fire walls through building, dividing it into three berths; plans and specifications by company's engineers; no mechanical equipment except to operate drops; bids opened and contract will soon be let." (Recently noted.)

Ky., Louisville—Canal.—Henry Bickel Company of Louisville is lowest bidder at \$656,094 for widening Louisville and Portland Canal between foot of 14th St. and lock No. 41; widening from 87 to 200 feet; includes removal of 770,000 cubic yards earth and nearly 200,000 cubic yards rock, with laying of 16,900 cubic yards concrete; Government will award contract; work will require three years; J. C. Oakes, Major, engineer. (Bids recently noted.)

Md., Baltimore—Monument.—Municipal Art Commission will erect memorial (to Gen. F. C. Latrobe) at Broadway and Baltimore St.; design will be of bronze and 9 feet high, resting on 6-foot pedestal of stone; cost \$4800, exclusive of base; Edward Berge and J. Maxwell Miller, 1335 Greenmount Ave., Baltimore, sculptors.

Miss., Greenville—Levee.—Mississippi Levee Commissioners awarded contract to Crittenden & Stacy to construct Skinner levee; earth embankment; 370,000 cubic yards levee enlargement; estimated cost \$80,000; W. J. Shackelford, chief engineer. (Call for bids lately noted.)

Miss., Vicksburg—Levee.—Commissioners Third Levee District awarded contract at \$9875 to Helgason Bros., Vicksburg, to construct about 25,000 cubic yards earthwork (recently noted) for new sub-banquette at Salem, La., levee.

Tenn., Chattanooga—Monument.—R. B. Randolph, superintendent of Chickamauga Park, received from Secretary of War approved plans and specifications for memorial to be erected by State of Florida on Chickamauga battlefield; estimated cost, \$13,500; contractor, McNeal Marble Co. of Marietta, Ga.

Va., Richmond—Lake.—Forest Hill Hotel Sanitarium Co., John C. Robertson, president, will construct large lake. (See "Miscellaneous Structures.")

### MISCELLANEOUS ENTERPRISES

Ala., Birmingham—Crematory.—City will build crematory to serve Ensley, Wylam, Fairview and Pratt City sections; cost \$5000. Address The Mayor.

Ala., Birmingham—Incinerator.—City approved reconstruction of plant on Village Creek; fireproof; cost \$3000. Address The Mayor.

Ala., Decatur—Printing.—Decatur Printing Co., capital stock \$5000, incorporated by W. A. Spivey, M. P. Foy, M. B. Potter and others.

Ala., Ensley—Crematory.—City will build crematory to cost \$4500. Address The Mayor.

D. C., Washington—Amusement Device.—Washington Gyroplane Co., capital stock \$5000, incorporated by Leonard B. Scloss, 1110 F St. N. W.; William F. Ham, H. Martin Keeling and others.

D. C., Washington—Music Publishing.—H. Kirkus Dugdale Company, 14th and U Sts., will erect building for music publishing house and moving picture theater; plans by George P. Hales, Bond Bldg., Washington; contract awarded to Skinner & Garrett. (See "Theaters.")

Fla., Miami—Incinerator.—City votes May 13 on \$25,000 bond issue to construct furnaces or other devices for destroying garbage and sewage; J. W. Watson, Mayor.

Fla., Miami—Water Transportation.—Forbes Pioneer Boat Lines Co., capital stock \$50,000,

organized by F. A. Forbes of Miami, W. S. Witham of Atlanta, Ga., and others to operate system of water transportation on canals in southern peninsula of Florida, connecting Gulf of Mexico and Atlantic Ocean at Miami, Fort Lauderdale, Palm Beach and Fort Myers by way of Lake Okeechobee; plans to build docks and hotel on Ritts Island. Mr. F. A. Forbes is vice-president.

Ga., Augusta—Publishing.—Hugh H. Alexander, chairman, Chronicle Building Co., receives bids until April 10 for removal of present building from site and furnishing all material and labor necessary to erect 10-story-and-basement fireproof office building, in accordance with plans and specifications prepared by G. Lloyd Preacher, architect and engineer, Augusta, Builders' Exchange, Atlanta, Ga., and W. L. Stoddart, associate architect, 30 W. 38th St., New York; contractors may secure plans, etc., from architects on deposit of \$50; subcontractors for \$25; plans and specifications at architect's offices; T. O. Brown & Son, Augusta, want subcontractors to correspond with them relative to bids in connection with this structure. (Previously mentioned.)

Ga., Burroughs—Dairy.—J. H. and Amos Green of New York State purchased property through L. M. Le Hardy of Savannah, Ga., and will improve for dairy farm; expend \$40,000 to \$50,000 for buildings.

Ga., Savannah—Incinerator.—City will construct recently-noted incinerator; capacity, 130 tons garbage daily; Mayor and Aldermen will receive bids, to be opened April 25; Richard J. Davant, Mayor. (See "Machinery Wanted.")

Ga., Savannah—Dairy.—Oakland Island Improvement Co. plans to establish large dairy. (See "Land Developments.")

Ky., Louisville—Publishing.—Blair-Young Publishing Co., capital stock \$5000, incorporated by J. Gaylord Blair, Colling Young and Thomas J. Knight.

Ky., Maysville—Abattoir.—William W. Wels will build abattoir.

La., Lake Charles—Grain Elevator.—Lake Charles Grain Co., capital stock \$50,000, incorporated to build grain elevator; Rudolph C. Miller, president; Jackson K. Josey, vice-president; Everett O. McClain, secretary.

La., New Orleans—Barge Line and Grain Elevator.—G. T. Propper of Waterways Navigation Co. of St. Paul, Minn., is arranging for erection of grain elevator and contemplats establishment of barge line from St. Paul to New Orleans.

La., New Orleans—Contracting.—D. B. Gore & Co., capital stock \$50,000, incorporated by A. C. Wuerpel, D. B. Gore, J. M. Gore, Jr., and William Kernan Dart.

La., New Orleans—Printing.—M. Capo, Inc., capital stock \$25,000, chartered; Henry V. Capo, president; F. L. Capo, vice-president.

La., New Orleans—Electrical Supplies.—Electrical Supply Co., capital stock \$50,000, incorporated by Edward Jumonville, Leo L. Hirsch, Lazard Levy and others.

La., New Orleans—Engineering.—National Engineering Co., 331 Carondelet St., incorporated with capital stock \$100,000; to conduct general engineering and contracting; exclusively fireproof construction; James L. Glass, general manager; other stockholders include George Burnett, Waco, Tex.; T. C. Marberry, Henrietta, Tex., and A. Z. Rogers, Montague, Tex.

Md., Baltimore—Abattoir.—Union Abattoir Co. will rebuild structures recently reported burned; main office, Brunswick St. and Wilkens Ave.

N. C., Fayetteville—Laundry.—Fayetteville Steam Laundry Co., capital stock \$50,000, incorporated by C. B. Ledbetter and H. McD. Robinson of Fayetteville and John H. Ledbetter of Rocky Mount, N. C.

S. C., Columbia—Publishing.—Daily Index, capital stock \$2000, incorporated; W. C. Fripp, president; H. C. Saffold, secretary-treasurer; J. S. Sloan, manager; will operate publishing plant; made first purchase of machinery at cost of \$1000.

Tenn., Johnson City—Contracting.—Eagle Building Corporation capital stock \$15,000, incorporated by S. E. N. Moore, G. C. Sharp, G. S. Chase and others.

Tenn., Mount Pleasant—Laundry.—W. F. Cummins and Tom Cotton will install steam laundry equipment.

Tex., Dallas—Crematory.—Municipal Commissioners will install three additional units in crematory; receives bids until March 31; will also reline old furnace and use in future as emergency plant; P. P. Henson submitted bid of \$1550 for latter.

Tex., Yoakum—Laundry.—Reid & Edwards will erect building to be equipped as laundry.

Va., Emporia—Road Contracting, etc.—Emporia Concrete & Construction Co., capital stock \$15,000, incorporated; L. M. Lee, president; S. E. Lee, vice-president-general manager; James Lee, secretary-treasurer.

W. Va., Wheeling—Contracting.—Schofield-Cove Company, capital stock \$10,000, incorporated by E. F. Schofield, Fred Cowl, George Weimer and others.

### MISCELLANEOUS FACTORIES

Ala., Mobile—Containers.—Simplex Container Co., capital stock \$5000, incorporated by Frank W. Carmelich, Clementine Carmelich and D. H. Dure.

Fla., De Funiak Springs—Syrup.—R. E. L. McCaskill will build syrup mill.

Fla., Santa Rosa—Syrup.—R. E. L. McCaskill of De Funiak Springs, Fla., will establish syrup mill.

Fla., Tampa—Drugs, etc.—Caloric Company, capital stock \$10,000, incorporated; John C. Hopkins, president; K. M. Len, vice-president; William M. Lea, treasurer; Warren Hopkins, secretary.

Ky., Shelbyville—Tobacco.—James H. Marcus, A. and Morry I. Wakefield, M. F. Rothchild and associates purchased plant of Polk Bros. of Taylorsville, Ky.; remove plant to Shelbyville and enlarge; will incorporate under old firm name with \$10,000 capital stock.

La., Shreveport—Electric Fixtures.—Elliott Electric Co. will build plant containing 7000 square feet floor space.

Md., Baltimore—F. X. Ganter Company, Leadenhall and Stockholm Sts., secured permit to erect factory building on Leadenhall near West St.; 2½ stories; brick; 65x70 feet; plans and specifications being prepared. (Recently mentioned.)

Miss., Hattiesburg—Turpentine, etc.—Hattiesburg Wood Reduction Co. contemplates enlarging plant and installing machinery, providing daily capacity of 100 cords waste wood; wood will be used to secure turpentine and tar products.

Miss., Meridian—Ice-cream Cartons.—Mr. Rogers of Rogers Ice-Cream Co., will establish plant to manufacture cardboard cartons for packing and carrying ice-cream.

Mo., St. Louis—Medicine.—Dr. Miller Co-operative Medicine Co., capital stock \$100,000, incorporated by J. L. Miller, A. J. Kraft and Fred Knehaus.

Mo., St. Louis—Rubber Heels.—A. A. Hudson & Co. of Cincinnati, O., leased 20,000 square feet factory space in building at Washington Ave. and 22d St. and will equip to manufacture rubber heels.

Mo., St. Louis—Cleaning Compound.—Carbon Cleaning Compound Co., capital stock \$2200, incorporated by Edward Mendelsohn, Charles L. Rogers, Thomas H. Colbs and Nicholas A. Doyle.

Mo., St. Louis—Roofing.—Commercial Roofing Co., capital \$2000, incorporated by D. H. Hogan, Thomas J. McDermott and R. E. Hogan.

N. C., Asheville—Harness and Saddlery.—A. P. Goetz Company of Charlestown, W. Va., is considering establishment of branch manufacturing plant.

N. C., Stanley—Creamery.—Gaston Creamery Co., capital stock \$50,000, incorporated by J. F. Clemmer, H. C. Hoover and others.

N. C., Wilmington—Ink.—Safety Ink Co., capital stock \$30,000, incorporated; C. J. Roberts, president; L. J. Carter, vice-president; A. B. McNair, secretary; J. W. Yates, treasurer; F. M. Pittman, general manager; will establish plant to manufacture ink, typewriter ribbons, etc.

Okla., Anadarko.—Eagle Manufacturing Co., capital \$32,000, incorporated by J. M. Miller, Nathan D. Hamilton and others.

Okla., Oklahoma City.—Baker, Hanna & Blake Company, capital \$110,000, incorporated by J. H. Baker, M. B. Blake, T. S. Hanna, T. C. Evans and others.

Okla., Sapulpa—Mattresses, etc.—Southwestern Bedding Co., H. J. Ward, president (recently noted incorporated, capital stock \$10,000), awarded contract to Jacob Besch to erect 50x100-foot \$150 building; will install mattress and bedding machinery.

S. C., Anderson—Shaving Mugs.—Sanitary Shaving Mug Co., capital stock \$2000, incorporated by P. C. Osteen, W. J. Muldrow, J. O. Sanders and J. H. Godfrey.

S. C., Charleston—Bottling.—Ala-Cola Bottling Co., capital stock \$20,000, incorporated; C. H. Chisolm, president; J. B. Chisolm, secretary-treasurer.

S. C., Timmonsville—Tobacco.—C. A. Smith will erect leaf tobacco factory to be operated by A. B. Turner; construction contract awarded.

Tex., Brownsville—Brewery.—Lone Star Brewing Co., San Antonio, Tex., contemplates establishing brewery.

Tex., Dallas—Overalls.—Hamilton Carhart of Detroit, Mich., will, it is reported, establish overall factory.

Tex., Denison—Bakery.—C. Christman and Jacob Krattiger will erect brick building and equip as bakery.

Tex., El Paso—Concentrator Table Covers. American Concentrator Table Cover Co. incorporated by J. H. McKee, J. A. McMahon, D. C. Sutton and J. J. Sweeney.

Tex., San Antonio—Perfumes, etc.—Red Spear Commerce Co., capital stock \$25,000, organized by Mr. Laubscher of New York and others to manufacture perfumes, toilet articles and chemical sundries; Mr. Laubscher is temporarily located at Gunter Hotel, San Antonio.

Va., Damascus—Extracts.—Smethport Extract Co. increased maximum capital stock from \$100,000 to \$150,000.

Va., Ellett (not a postoffice)—Lime.—Limestone Products Corporation, Shawsville, Va., J. L. Vaughan, president, will open proposals May 1 to erect limestone kilns; cost of plant within \$10,000; daily capacity, 500 barrels of lime. (Recently noted under Shawsville.)

Va., Richmond—Standard Paper Manufacturing Co. will enlarge plant.

Va., Kenbridge—Churns.—Kenbridge Churn Co., capital stock \$20,000, incorporated; A. D. Hobgood, president; V. C. Love, vice-president; W. G. Coleman, secretary-treasurer.

Va., Richmond—Tobacco.—Patterson Bros. Tobacco Co., capital stock \$250,000; incorporated; will acquire, enlarge and continue plant of Gordon Cigar & Cheroke Co.; M. C. Patterson, president; John Landstreet, J. T. Patterson and J. S. Hutcheson, vice-presidents.

W. Va., Charleston—Tanning Extracts.—Tanners & Dyers Extract Co. will rebuild plant reported burned; cost \$30,000; construction under supervision of company; materials purchased.

W. Va., Huntington—Overalls.—Charles Newman of Huntington Grocery & Supply Co. contemplates establishing overall factory.

W. Va., Morgantown—Glass.—Morgantown Machine Glass Co. (recently reported incorporated with \$150,000 capital stock by August Boehler and others) has acquired Wightman factory, and plans eventually to construct chain of factories in West Virginia cities.

### MOTORS AND GARAGES

Ala., Birmingham—Garage.—Birmingham Motor Co. awarded contract to M. W. Smith to erect two-story brick garage; plans by Harry B. Wheelock, Birmingham.

Fla., Jacksonville—Garage.—Charles A. Cheatham opens bids April 10 to erect proposed garage; two stories; pressed brick; common brick; cement floors; electric lighting; Carey's roofing; cost \$12,000; plans by W. B. Camp, Jacksonville.

Fla., Miami—Garage.—H. H. Mundy is preparing plans for garage on 14th St.; two stories; reinforced concrete; elevator; cost \$7000.

La., New Orleans—Garage.—T. F. Steele will erect two-story brick garage.

Mo., St. Louis—Garage.—Trustees Barnes Hospital will erect building for garage and automobile display and salesroom; two stories; two ornamental plate-glass fronts; cost \$50,000; plans by Mauron, Russell & Crowell of St. Louis.

N. C., Wilson—Automobiles.—Citizens' Motor Co., capital stock \$10,000, incorporated by A. S. Lachicotte, W. D. Adams, H. A. Young and W. H. Ellis.

S. C., Sumter—Marine Motors.—Losey Marine Motor Works of Cape Girardeau, Mo., is considering establishing plant.

W. Va., Romney—Garage.—Hampshire Garage, capital stock \$5000, incorporated by John J. Cornwell, Thomas F. Martin, E. V. Parker and others.

W. Va., Romney—Automobiles.—Motor Sales Co., capital stock \$25,000, incorporated by G. M. Emory of Romney, Newton Gies of Accident, Md., and C. C. Frederick of Friendsville, Md.

### RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

La., New Orleans.—Southern Pacific Co., Hiram W. Sheridan, general superintendent Louisiana lines, New Orleans, will, it is reported, expend \$1,000,000 in Louisiana for rails, section-houses, water tanks, boiler-house at Algiers, etc.; appropriated \$43,000.



Md., Hagerstown.—Western Maryland Railway, H. L. Pratt, chief engineer, Baltimore, Md., decided to concentrate locomotive repair shops at Hagerstown, and authorized construction of shop to cost nearly \$300,000; now considering plans.

Tex., Freeport.—Missouri, Kansas & Texas System, Frank Trumbull, chairman of board, 49 Wall St., New York, is reported planning extensive construction for terminal facilities in connection with recently-reported purchase of Houston & Brazos Valley Railway; Mr. Trumbull wires Manufacturers Record: "Matter not in shape for public announcement."

### ROAD AND STREET WORK

Ala., Ashville.—St. Clair County Road Commissioners will grade two miles of Caldwell Rd.; 8000 cubic yards of excavation; bids received until April 14; W. S. Keller, State Highway Engineer, Montgomery, Ala. (See "Machinery Wanted.")

Ala., Birmingham.—City Commission is considering construction of 14-mile paved boulevard from East Lake to Ensley.

Ala., Birmingham.—Crescent Wood Block Paving Co., 917 Maison Blanche Bldg., New Orleans, La., was awarded contract recently incorrectly noted to "Southern Wood Block Paving Co."; advises that work comprises 13,180 yards creosoted wood block on 19th St., Second Ave. and Morris Ave.; cost, including sidewalks, curb, etc., about \$40,000.

Ala., Dadeville.—City engaged C. H. Ohme, engineer, 201 First National Bank Bldg., Birmingham, Ala., to make preliminary surveys, specifications and estimate cost of construction of 10,000 square yards paving and 6000 feet curb and gutter recently noted; probably ask bids in about 30 days; George C. Doyville, Mayor. (See "Machinery Wanted.")

Ark., Guntersville.—Marshall County Commissioners will grade, drain and surface with gravel or macadam part of Guntersville and Warrenton road; expenditure \$5000; bids received April 22 for this construction and for previously noted four-mile sand-clay road between Boaz and Albertville; W. S. Keller, State Highway Engineer. (See "Machinery Wanted.")

Ala., Falkville.—City will vote on bond issue to construct cement sidewalks. Address The Mayor.

Ark., Fayetteville.—Commissioners Street Improvement District No. 1 will construct 20,000 square yards of pavement; amount available \$50,000; E. A. Kingsley, 717 Southern Trust Bldg., Little Rock, Ark., engineer in charge; probably open bids about May 1. (Recently noted.)

Fla., Clearwater.—City will grade and pave Fort Garrison Ave. from Jones to Eldridge St. with vitrified brick; combination concrete curb and gutter; R. T. Daniel, Town Clerk.

Fla., Dade City.—Pasco county postponed date of election to vote on \$150,000 bond issue for road construction from March 18 (as lately stated) to April 30. (Recently mentioned.)

Fla., Fort Myers.—C. W. Carlton, Mayor, states city contemplates building shell roads; plans not developed; bonds voted, \$37,000; probably open bids in from three to five months. (Recently noted. See "Machinery Wanted.")

Fla., Key West.—Board of Public Works awarded contract to Southern Asphalt & Construction Co. to pave Whitehead St. and streets adjacent to naval station with vitrified brick.

Fla., Key West.—Monroe County Commissioners will secure plans and specifications for building road; expenditure authorized, \$2000.

Fla., Miami.—City votes May 13 on \$60,000 bond issue to pave streets and sidewalks; J. W. Watson, Mayor.

Fla., Tallahassee.—City votes April 15 on \$22,000 bond issue for street paving; D. M. Lowry, Mayor.

Fla., Tampa.—Hillsboro county will vote on \$500,000 bond issue to construct brick roads. Address County Commissioners.

Ga., Athens.—City voted \$75,000 bond issue for road improvements; J. W. Barnett, City Engineer. (Recently noted.)

Ga., Cordele.—City will expend \$100,000 for street paving. Address The Mayor.

Ga., Rome.—City awarded contract to Southern Asphalt & Construction Co., Birmingham, Ala., for construction of 4520 square yards of Trinidad Lake sheet asphalt; amount available, \$12,000; W. M. Wilson, City Engineer.

Ga., Waycross.—Ware county engaged Crook & Lanneau, Americus, Ga., to prepare

plans and specifications for highways in Ware county and to superintend same.

Ky., Louisville.—Board of Public Works receives bids until April 10 for street improvements estimated to cost \$35,000; 29th and Cleveland Sts. with vitrified blocks, cost \$4000; Barney, Everett, Burnett and Dumesnil Sts. with asphalt, cost \$25,600.

La., Baton Rouge.—Third Ward of East Baton Rouge parish votes May 10 on 3-mill tax to construct gravel roads. Address Police Jury.

La., Donaldsonville.—First Road District of Ascension parish voted \$35,000 bond issue for road construction; proposes to construct gravel roads from Iberville to St. James' parish line and on both sides of Bayou Lafourche from Donaldsonville to Assumption parish line, 20 miles; estimated to require \$50,000, remaining \$15,000 to be obtained by annual appropriation by Police Jury. (Recently mentioned.)

La., Lake Arthur.—Calcasieu parish voted to construct roads. Address Police Jury. Lake Charles, La.

La., New Orleans.—City will surface Fontainebleau Drive; appropriated \$7000; W. J. Hardee, City Engineer.

Md., Baltimore.—City will improve Patterson Park Extension, area bounded by Linwood, Eastern and Elwood Aves. and Pratt St.; bids received until April 9; plans and specifications with Board of Park Commissioners, office, Druid Hill Park; Wm. S. Manning, general superintendent, Board of Awards. (See "Machinery Wanted.")

Md., Baltimore.—Paving Commission will pave following streets this year in addition to those now under contract: West St., Riverside Ave. to Light St.; Andre St., Fort Ave. to Marriott St.; Franklin St., St. Paul to Charles St., and Eutaw St. from Camden to Lee St.; use vitrified blocks on all streets with exception of Eutaw St.

Md., Baltimore.—Highways Commission, Baltimore county, E. Stanton Bosley, secretary, will receive proposals at Towson, Md., until April 17 for building section of State aid highway on Falls Rd. between Beaver Dam Run north for about 50 miles. (See "Machinery Wanted.")

Md., Baltimore.—Realty & Investment Corporation, Allendale Rd. and Bateman Ave., Walbrook, Station F, Baltimore, awarded contract to B. J. McCullough & Co., 2042 W. Fayette St., Baltimore, to construct concrete streets, cement sidewalks, sewers and water and gas mains.

Md., Denton.—Caroline county will construct section of State highway from Denton-Willow Pond Rd., between Denton and Willow Pond, distance of 1.63 miles, including one large drawbridge; bids received at office of County Commissioners, Denton, until April 15; William H. Anderson, Clerk; blank forms of proposals, etc., obtainable at office of State Roads Commission, 534 N. Howard St., Baltimore, Md. (See "Machinery Wanted.")

Md., Ellicott City.—Howard County Commissioners awarded contract to Thomas C. Forsythe and J. Booker Clark of Belair, Md., to construct section of county highway in Second District on Old Frederick Rd.; grade roadbed for width of 18 feet in cuts and 20 feet in fills.

Md., Westminster.—Carroll County Commissioners will construct section of State highway road along Finksburg Rd. between Finksburg Station and Finksburg, distance of 1.2 miles; bids received until April 8 at office of County Commissioners; blank forms, etc., obtainable at office of State Roads Commission, 534 N. Howard St., Baltimore, Md.; O. E. Dodrer, Clerk. (See "Machinery Wanted.")

Md., Frederick.—City awarded contract to Charles H. Kilpp to pave portion of Carroll St. with vitrified brick.

Miss., Fulton.—Itawamba County Supervisors will issue \$65,000 of bonds for road construction.

Miss., Magnolia.—Road Commission of Fourth District of Pike county selected Xavier A. Kramer of Magnolia to make surveys and supervise construction of roads; contemplates building about 100 miles of roads at estimated cost of \$250,000 to \$300,000.

Miss., Meridian.—City voted \$25,000 bond issue for street improvements; J. W. Parker, Mayor. (Recently mentioned.)

Miss., Poplarville.—Pearl River county defeated \$25,000 bond issue for road construction in Beat No. 1; H. K. Rouse, Clerk. (Recently noted.)

Mo., Kansas City.—Kansas City Terminal Railway awarded contract to E. J. Wetterstrom of Little Rock, Ark., at about \$225,000 for creosoted wooden block paving, aggregating 75,000 square yards, around new Union Station and over 13 viaducts; require about 5,000,000 blocks.

N. C., Gastonia.—City, Thos. L. Craig, Mayor, will construct about 38,000 square yards concrete sidewalks; bids received until April 4; specifications, etc., with John R. Rankin, clerk. (See "Machinery Wanted.")

N. C., Charlotte.—City will construct 36,370 square yards paving and 8962 square yards concrete sidewalks with necessary curbing, etc.; bids received until April 2; Joseph Firth, City Engineer; A. H. Hearn, Clerk. (See "Machinery Wanted.")

N. C., Mount Airy.—Mount Airy township of Surry county votes April 17 on \$80,000 bond issue for road construction; W. S. Cough, chairman County Commissioners, Dobson, N. C.

N. C., Washington.—Beaufort county will vote on bond issue for road construction. Address County Commissioners.

N. C., Wilmington.—New Hanover county votes May 27 on \$100,000 bond issue for road construction. Address County Commissioners.

Okla., Cleveland.—City awarded contract to Swatek & Parker, Oklahoma City, Okla., to pave eight blocks with vitrified brick on concrete base; cost about \$40,000.

S. C., Darlington.—Town awarded contract to J. R. Steele of Bennettsville, S. C., to pave about 15,000 square feet sidewalks. (Recently noted.)

S. C., Spartanburg.—City will vote on \$100,000 bond issue for street and sidewalk improvements. Address The Mayor.

Tenn., Bluff City.—Sullivan county purchased all machinery and equipment for construction of 40 miles of pike roads; \$200,000 available; contract recently noted awarded to Oliver & Hill, Maryville, Tenn.

Tenn., Bristol.—Sullivan County Road Commission arranged with city officials for expenditure of \$25,000 out of \$200,000 bond issue for street improvements; S. G. Keller, Jr., chairman street committee, will be in charge.

Tenn., Harriman.—City will grade and pave with asphalt on E. Roane, Morgan and Clifty Sts.; awarded contract to Goodrich & Crinkley of Harriman.

Tenn., Morristown.—City will construct 15,730 square yards guttering, grading and paving with sheet asphalt in District No. 4; excavation about 6500 cubic yards; also for about 2633 square yards grading, guttering and paving with bituminous macadam in District No. 5; excavation, 2043 cubic yards; bids received until April 18; D. C. Morris, Recorder. (See "Machinery Wanted.")

Tenn., Nashville.—Board of Public Works will construct granitoid curbing and sidewalks on portions of various streets; bids received April 3; William W. Southgate, City Engineer. (See "Machinery Wanted.")

Tenn., Nashville.—J. L. Wade will construct 50-foot boulevard 88-acre subdivision on Gallatin Rd.

Tex., Baird.—Justice Precinct No. 1 of Callahan county defeated \$75,000 bond issue for road construction. Address County Commissioners. (Recently mentioned.)

Tex., Bishop.—Road District No. 1 of Nueces county voted \$100,000 bond issue to construct about 50 miles of road.

Tex., Cameron.—Cameron Precinct votes April 18 on \$150,000 bond issue for road construction. Address County Commissioners. (Recently noted.)

Tex., Corsicana.—Navarro county voted \$400,000 bond issue for road construction. Address County Commissioners.

Tex., Eagle Lake.—Road District No. 1 of Colorado county defeated \$100,000 bond issue for road construction. Address County Commissioners. (Recently mentioned.)

Tex., Fort Worth.—Tarrant County Commissioners contemplates constructing brick roadway between Fort Worth and Dallas county line, about 16 miles; plans as now prepared call for rock or gravel and concrete road.

Tex., Houston.—City will grade and pave portion of Walker Ave. with No. 1 repressed vitrified brick with asphalt filler pavement; bids received until April 14 at office of Dan C. Smith, City Secretary; F. L. Dormant, City Engineer. (See "Machinery Wanted.")

Tex., Houston.—City will grade and pave portion of Fannin St. with creosoted wood block pavement; bids received until April 7 at office of Dan C. Smith, City Secretary; F. L. Dormant, City Engineer. (See "Machinery Wanted.")

Tex., Kyle.—Kyle precinct of Hays county votes April 11 on \$100,000 bond issue for road construction. Address County Commissioners, San Marcos, Tex.

Tex., Livingston.—Justice Precinct No. 1 of Polk county votes April 26 on \$200,000 bond issue for road construction. Address County Commissioners.

Tex., Gause.—Gause Precinct votes April 12 on \$40,000 bond issue for road construction. Address County Commissioners.

Tex., Seminole.—County Commissioners let contract at \$25 per mile for work on Seminole-Lamesa sand-clay road; W. R. Sinton, County Judge.

Va., Bristol.—Bristol-to-Wise Highway Association organized to promote construction of macadamized road from Bristol to Big Stone Gap, connecting with improved roads of Wise county; proposes to build road across Clinch Mountain. J. P. Sutton of Mendota, Va., is president.

Va., Clintwood.—State Highway Commission will grade and drain about 7½ miles of road from Clintwood to ford of McClure River; bids received until April 3; further information available on application to P. St. J. Wilson, State Highway Commissioner. (See "Machinery Wanted.")

Va., Highland Park, P. O. at Richmond.—City will vote on \$50,000 bond issue for paving, sewer construction, etc. Address Town Clerk.

Va., Petersburg.—Dinwiddie county will gravel Jerusalem plank road from city limits five miles into Prince George county. Address County Supervisors, Dinwiddie, Va.

Va., Richmond.—Administrative Board will expend \$4000 for driveway at Riverview Park; Charles E. Bolling, City Engineer.

W. Va., Clarksburg.—City awarded contract to W. B. Virgle & Co., Room 1 Fordyce Bldg., Clarksburg, for 7000 square yards street paving; construction at once.

W. Va., Fairmont.—Marion county will construct 32.7 miles of road, including grading, etc., in Mannington district, according to plans and specifications by J. Russell Wilson, civil engineer, Washington, Pa.; plans and specifications in offices of engineer, National Bank of Mannington Bldg., Mannington, W. Va.; 163 S. Main St., Washington, Pa., and of John T. Phillips, County Clerk, at Fairmont; bids received until April 10. (See "Machinery Wanted.")

W. Va., Martinsburg.—City contemplates bond issue for streets and sewers. Address Mayor Harmon.

### SEWER CONSTRUCTION

Ala., Mobile.—City awarded contract to Sullivan, Long & Haggerty of Bessemer, Ala., at \$42,836.20 to construct western storm sewer; 30,000 linear feet 8 to 20-inch vitrified pipe; all material, etc., supplied.

Fla., Apalachicola.—City has \$15,000 bond issue available for proposed sewer extension. Address The Mayor.

Ga., Donaldsonville.—Town is having engineers make surveys preparatory to construction of sewer system. Address Town Clerk.

Fla., Miami.—City votes May 12 on \$40,000 bond issue for sewer construction; J. W. Watson, Mayor.

Fla., Sarasota.—Bond trustees awarded contract to American Light & Water Co. of Chicago, Ill., at \$19,500.16 for sewer system and water-works; plans for sewer construction include 1890 feet 12-inch, 5742 feet 10-inch, 3557 feet 8-inch, 7539 feet 6-inch terra-cotta sewer pipe, 40 manholes and 4 flush tanks.

Ga., Cordele.—City will expend \$5000 to remodel and extend sewer system. Address The Mayor.

Ga., Macon.—City will construct sanitary sewers for Tybee section of city; Dr. Howard J. Williams, chairman committee from Board of Health.

Md., Baltimore.—Realty & Investment Corporation, Allendale Rd. and Bateman Ave., Walbrook, Station F, Baltimore, awarded contract to B. J. McCullough & Co., 2042 W. Fayette St., Baltimore, to construct sewers, etc. (See "Road and Street Work.")

Md., Baltimore.—City will construct lateral sewers and house connections in District No. 16-B, contract No. 119; specifications and plans obtainable from secretary Sewerage Commission, Room 904 American Bldg., after March 29; bids received at City Hall until April 16; about 14,500 linear feet vitrified-pipe house connections; 17,500 linear feet vitrified-pipe sewer, 8 to 18 inches diameter; Chas. H. England, chairman Sewerage Commission. (See "Machinery Wanted.")

Miss., Greenville.—City contemplates improving sewer system; West & Allen, engineer; H. Wilczinski, chairman committee.

Mo., California.—City awarded contract to B. Inman of California at \$15,647 to construct 4½ miles lateral sewers; Burns & Mc-

Donnell, Scarritt Bldg., Kansas City, Mo., are consulting engineers. (Recently noted.)

Mo., Hannibal.—City awarded contract to Matthews & Forrester of Kansas City, Mo., at \$22,907 to construct sewers in District No. 9, and to Jacob Althouse of St. Louis, Mo., at \$45,072 in District No. 100; B. F. Smiley, City Engineer. (Call for bids lately noted.)

N. C., Toisnot, P. O. at Wilson.—Town votes April 29 on \$10,000 bond issue to construct sewer system and water-works. Address Town Commissioners.

Okla., Armstrong.—City voted \$72,000 bond issue to extend sewer system. Address The Mayor. (Recently mentioned.)

S. C., McColl.—City, J. B. Riven, Mayor, voted bond issue for sewer system. (Recently noted to vote \$20,000.)

Tenn., Cleveland.—City will extend sewer system; plans \$75,000 bond issue. Address The Mayor.

Tex., Kingsville.—City is having plans prepared for sewer system. Address The Mayor.

Tenn., Martin.—Bell-Hudson Construction Co. is lowest bidder at \$26,933 for construction of sanitary sewers; R. C. Huston & Co., engineers, 630 Exchange Bldg., Memphis, Tenn.

Tex., Rosebud.—City contemplates constructing sewer system; S. J. Ward, Mayor.

Tex., Temple.—City Council and Temple Sanitary Sewer Co. agreed upon \$42,425.51 as purchase price of company's plant; city votes April 1 on \$75,000 bond issue for purchase or construction of sewer system; W. E. Dozier, City Engineer. (Recently noted.)

Va., Highland Park, P. O. at Richmond.—City will vote on \$50,000 bond issue for sewer construction, paving, etc. Address Town Clerk.

W. Va., Bluefield.—City contemplates voting in May on \$10,000 bond issue to complete South Bluefield sewer system and \$15,000 to extend West End sewers. Address The Mayor.

W. Va., Martinsburg.—City contemplates bond issue for sewers and streets. Address Mayor Harmon.

#### TELEPHONE SYSTEMS

Md., Kensington.—Chesapeake & Potomac Telephone Co., main office, 5 Light St., Baltimore, Md., will construct telephone system in Kensington.

Okla., Gate.—Hundredth Meridian Telephone Co., incorporated by A. E. Harvey, Otto Stanley and Dillon Brown.

Okla., Rankin.—Rankin Telephone Co., capital stock \$500, incorporated by C. Y. Libby, G. H. Cox and Ira Walters.

S. C., Fountain Inn.—Fountain Inn Telephone Co., capital stock \$4500, incorporated by W. B. and James H. Stewart and James M. Richardson; purchased established telephone plant of A. J. Day and will continue operation.

Tex., Memphis.—Horace Gooch of Amarillo, Tex., awarded contract to erect telephone exchange.

Tex., Frankston.—Frankston Telephone Co., S. G. Jones, manager (recently noted incorporated with \$4500 capital stock), will construct exchange to cost \$1500. (See "Machinery Wanted.")

Tex., Port Arthur.—South Texas Telephone Co. will erect telephone exchange and office building; two stories; brick; 25x100 feet.

W. Va., Fairmont.—Southern Bell Telephone & Telegraph Co. (main office, Atlanta, Ga.) contemplates, it is reported, erecting telephone exchange.

#### TEXTILE MILLS

Ga., Barnesville.—Underwear.—Collier Manufacturing Co. will enlarge knit underwear mill; erect two-story 150x50-foot brick building; install knitting, bleaching and finishing machinery.

Miss., West Point.—Cotton Goods.—Lorraine Cotton Mills, capital stock \$125,000, organized by J. R. French and C. E. Wilkins of Starkville, Miss.; will continue West Point Cotton Mills, which they have purchased.

N. C., Burlington.—Hosiery.—Whitehead Hosiery Mills Co. has plans for additional mill building; to be 180x50 feet, three stories high, of brick construction, with prism glass; building and several hundred machines for knitting hosiery are reported as to cost about \$75,000. (Lately mentioned.)

N. C., Charlotte.—Cotton Goods.—Thrift Manufacturing Co., capital stock \$50,000, incorporated by T. C. Guthrie, C. W. Tillett, J. M. and T. C. Guthrie, Jr.

N. C., Salisbury.—Cotton Yarns.—Vance Cotton Mills Co. states it contemplates installing recently-noted additional twistors, but there is nothing definite as to plans or time of installation.

S. C., Yorkville.—Cotton Goods.—Ancona

Cotton Mills, capital stock \$250,000, incorporated by J. W. Cannon and J. F. Cannon of Concord, N. C.

Tenn., Murfreesboro.—Cotton Goods.—J. C. Beasley is interested in organization of company with \$50,000 capital stock to build cotton mill to be operated by electricity; plans not matured. (Recently noted.)

#### WATER-POWER DEVELOPMENTS

Ala., Birmingham.—Alabama Power Co., 100 Broadway, New York, and Birmingham, confirming statement of future development plans, wires Manufacturers Record: "Power referred to represents maximum available power at 40 per cent. load factor when storage reservoirs contemplated by United States have been built and reinforced by steam plants; we intend to construct provision against interruptions and exceptionally dry seasons. Program will cover period of many years. No work under way or contemplated other than Lock 12 hydraulic plant of 50,000 kilowatts and Gadsden steam plant of 10,000." Statement referred to as confirmed details 11 dams capable of furnishing 1,227,000 horse-power. (Other construction details heretofore reported.)

Ala., Florence.—Board of Engineer Officers has prepared plans and estimates for improvement of Muscle Shoals section of Tennessee River, between Florence and Decatur, Ala.; receives proposals until June 24 from engineers and others desiring to co-operate in this development; plans involve construction of three dams with power-house at each, utilizing 10,000 second feet for primary power and next 10,000 second feet for secondary power; plans also provide locks for six-foot navigation and ultimate deepening to nine feet, between Florence and Decatur; studies of board indicate these dams will develop at power-house switchboard about 165,000 electrical horse-power for primary power and about 95,000 horse-power for secondary power; board's plans and details of hydraulic studies for power on file in United States engineer office at Nashville, where they may be examined; blueprints, copies of records, etc., furnished upon nominal payment. For circular and other information address Harry Burgess, Major, Corps of Engineers, United States Engineer Office, Nashville, Tenn. (Lately briefly mentioned.)

Ga., Ocilla.—J. A. J. Henderson and Reason Henderson contemplate construction of hydro-electric plant on Alapaha Georgia River at or near Barineau on Ocilla Southern Railroad; now having surveys made.

Mo., Edith.—C. F. Robertson and Walter Bray of Springfield, Mo., contemplate constructing hydro-electric plant developing 70,000 horse-power; they own one water-power, near Edith, capable of 30,000 horse-power, and have options on two sites capable of 20,000 horse-power each on Big Niangua River; surveys indicate requiring construction of dams 60, 100 and 120 feet high, forming four lakes containing area of 300 to 400 square miles, the watershed containing area of 1008 square miles; cost of two principal dams estimated to cost \$1,500,000; reports state Robertson & Bray are planning to arrange for construction.

Mo., St. Charles.—City voted franchise to Mississippi River Power Distributing Co. to supply city with electricity; electricity will be generated from power plant at Keokuk, Iowa.

N. C., St. Pauls.—St. Pauls Light & Power Co., capital stock \$50,000, incorporated by Opie Odum, Z. M. Odum and John W. Baggett; Opie Odum, secretary-treasurer; installing water-wheel; dam purchased with site; develop 100 horse-power; building completed; cost of plant \$15,000; receiving bids on engine. (See "Machinery Wanted.")

N. C., Whitney.—Southern Aluminum Co. is understood to have begun construction of 1000x150-foot dam, for which B. H. Hardaway of Columbus, Ga., was recently reported to have received contract. (See "Metal-working Plants.")

Va., Christiansburg.—Herbert Markle, general manager Appalachian Power Co., Bluefield, W. Va. (H. M. Bylesby & Co., engineers and managers, Chicago, Ill.), advises his company has contracted to take over property of Christiansburg Electrical Co., but details are not completed.

W. Va., Berkeley Springs.—Lewis F. Cooper, Winchester, Va., president of Winchester & Washington City Railway Co., and others of that company purchased Cacapon Power Co. properties; these include hydro-electric plant on Cacapon River 3½ miles from Berkeley Springs and steam auxiliary plant at Berkeley Springs; each plant develops 900 horse-power for transmission by electricity to Berkeley Springs, Cacapon Station and Hancock, Md.; now constructing transmission system beyond Martinsburg, W. Va.

#### WATER-WORKS

Ala., Aliceville.—City, W. D. Boyles, Mayor, will expend \$3500 on extension of present water-works plant; Wm. F. Woolf, engineer and contractor. (Bond issue recently noted.)

Ark., Fayetteville.—City will meter entire water-works system; will require about 1000 meters; also contemplates erection of reservoir with 3,500,000 gallons capacity and building filter. Address H. Sour, in charge of water-works after April 1. (See "Machinery Wanted.")

Ark., Sulphur Springs.—City awarded contract to R. M. Galbraith of Pine Bluff, Ark., at \$19,161 to construct water-works and electric-light plant, including power and pump-houses, electrical equipment, water pipe, valves, 100,000-gallon standpipe, etc.; A. C. Moore, engineer, Independent Bldg., Joplin, Mo. (Call for bids lately noted.)

Fla., Dade City.—City Council granted franchise to C. A. Lock to construct water-works.

Fla., Fort Myers.—C. W. Carlton, Mayor, states city contemplates constructing concrete reservoir with aerating process; plans not decided; \$10,000 to be expended; may open bids in about three months. (Bond issue recently noted.)

Fla., Hawthorn.—Hawthorn Manufacturing Co. will install water-works.

Fla., Pensacola.—Water and Gas Committee, Dave Kugleman, chairman, will construct reinforced concrete reservoir at city pumping station; 100x150 feet; eight feet deep; covered by galvanized iron roof, supported by timber trusses; bids received until April 22; L. E. Thornton, City Engineer. (See "Machinery Wanted.")

Fla., Sarasota.—Bond Trustees awarded contract to American Light & Water Co. of Chicago, Ill., at \$19,500.16 for water-works and sewer construction; plans for water-works include 2480 feet 8-inch, 4650 feet 6-inch, 2455 feet 4-inch class "B" cast-iron water mains and 5700 feet 2-inch galvanized service pipe; 5 tons hydrants; 21 fire hydrants; 4 8-inch, 4 6-inch, 10 4-inch and 12 2-inch gate valves. (Call for bids lately noted.)

Fla., Tallahassee.—City votes April 15 on \$4000 bond issue to relay water mains, and on \$3000 bond issue to improve and extend water, gas and electric-light plant; D. M. Lowry, Mayor.

Ga., Cordele.—City Bond Commission engaged Arthur Pew, consulting engineer, 619 Temple Court Bldg., Atlanta, Ga., to prepare plans and specifications for extension to and supervise construction of water-works; cost \$40,000.

Ga., Forsyth.—City will extend water-works; purchased iron piping. Address The Mayor.

Ga., Lagrange.—City engaged James Nesbit Hazlehurst of Atlanta, Ga., to prepare plans and specifications and supervise construction of water-works and gas plant; estimated cost of former \$150,000 and of latter \$50,000 to \$150,000.

Ga., Guyton.—Geo. T. Haywood, Mayor, states that if bond issue (\$10,000 for water-works, recently noted to be voted April 15) is carried, city will advertise bids on construction of water-works and electric-light plant; reservoir, 50,000 gallons capacity; engineer, J. B. McCrary Company, Atlanta, Ga.

Ga., Marshallville.—City is having plans prepared by J. B. McCrary Company, Atlanta, Ga., for water-works and electric-light plant; estimated cost \$30,000; J. O. Boonton, Mayor. (Recently mentioned.)

Ga., Zebulon.—Town votes April 16 on \$10,000 bond issue to construct water-works. Address Town Clerk.

Ga., Whigham.—Town votes April 18 on \$2000 bond issue to improve water-works. Address Town Clerk.

Ky., Louisville.—Commissioner of Fisheries, Department of Commerce, Washington, D. C., will build pumphouse; receives bids until April 17; has plans, specifications, blank forms, etc.

Md., Baltimore.—Realty & Investment Corporation, Allendale Rd. and Bateman Ave., Walbrook, Station F, Baltimore, awarded contract to B. J. McCullough & Co., 2042 W. Fayette St., Baltimore, to lay water mains, etc. (See "Road and Street Work.")

Md., Baltimore.—Ezra B. Whitman, engineer, City Hall, has about completed specifications for proposed mechanical filtration plant at Lake Montebello; bids for construction to be opened April 30; estimated cost \$1,750,000; water to be carried from new dam

at Loch Raven to filtration plant through steel conduits; George W. Fuller of New York, consulting engineer. (Recently mentioned.)

Miss., Brooksville.—City has arranged for construction of water-works. Address The Mayor.

Miss., Meridian.—City voted \$100,000 bond issue for water-works; J. W. Parker, Mayor.

N. C., Raleigh.—City will take over water-works plant operated by Wake Water Co. at price to be fixed by three arbitrators, B. M. Hall, Atlanta, Ga.; Judge Shaw, Greensboro, N. C., and Gilbert C. White, Charlotte, N. C.; probably make improvements to plant; plans not definite; Gilbert C. White of Charlotte was consulting engineer for Wake Water Co. for proposed improvements. (Recently noted.)

N. C., Spencer.—City votes May 6 on \$50,000 bond issue for water-works and electric-light plant. Address The Mayor. (Recently mentioned.)

N. C., Toisnot, P. O. at Wilson.—Town votes April 29 on \$10,000 bond issue to construct water-works and sewer system. Address Town Commissioners.

N. C., Washington.—Town contemplates purchase or construction of water-works. Address The Mayor.

Okla., Armstrong.—City voted \$13,000 bond issue to extend water-works. Address The Mayor. (Recently mentioned.)

S. C., Manning.—City is having plans prepared by J. Newton Johnston, consulting engineer, Florence, S. C., for water-works; 24,000 feet pipe, 32 gate valves, two 100-horse-power boilers, 45 hydrants, 1,000,000-gallon steel tank, service pumps, brick pumping station and reservoir; estimated cost \$30,000. (Recently mentioned.)

S. C., McColl.—City, J. B. Riven, Mayor, voted bond issue for water-works. (Recently noted to vote \$30,000.)

S. C., Orangeburg.—City votes April 29 on \$60,000 bond issue to remove and erect water, light and power plant on municipal property adjacent to Edisto River. Address The Mayor. (Recently mentioned.)

Tenn., Arlington.—West Tennessee Construction Co. is lowest bidder at \$14,420 for construction of water-works and electric-light plant; R. C. Huston & Co., engineers, Memphis, Tenn.

Tenn., Cleveland.—City will extend water-works system; cost \$2500. Address The Mayor.

Tenn., Knoxville.—Knoxville Water Co. will construct four filtration basins; reinforced concrete; daily capacity 3,000,000 gallons. (Recently mentioned.)

Tenn., Memphis.—Special committee recommended to City Commission bond issue of \$500,000 for water-works extensions during next four years; recommends that issue be divided as follows: \$185,000 for extension of mains; \$65,000 for service connections; \$100,000 for meters, and \$150,000 for increase of water supply and miscellaneous construction; E. H. Crump, Mayor.

Tex., Aspermont.—Aspermont Water Co., capital stock \$25,000, incorporated by E. V. Sellers, A. V. McCarty and D. L. Couch.

Tex., Rosenberg.—City will expend \$12,000 to \$15,000 to construct water-works recently noted; bids asked; H. A. Meyers, Mayor. (See "Machinery Wanted.")

Tex., Rosebud.—City will improve water-works; proposes to build pumping station on Brazos River and supply water to present reservoir; S. J. Ward, Mayor.

Tex., Van Alstyne.—City awarded contract to erect concrete reservoir; also purchased pumping machinery; will erect fire station and pumphouse.

#### WOODWORKING PLANTS

Ala., Guntersville.—Heading.—C. E. Murray of Deckard, Tenn., will establish heading mill.

Ala., Sylacauga.—Box Shooks.—Sylacauga Lumber Co. will rebuild box-shook factory; plans not made. (Recently reported burned.)

Ark., Helena.—Cooperage.—Shelby Cooperage Co. of Portland, Ark., will establish plant to manufacture tight-barrel staves.

Fla., Jacksonville.—Bank Fixtures, etc.—Waterman Company will reorganize and increase capital stock from \$25,000 to \$100,000; will enlarge plant and install equipment to manufacture bank and office fixtures in addition to store fixtures.

La., Gibsland.—Shingles.—Felder Johnson will build shingle mill.

Md., Baltimore.—Furniture.—Levenson & Zenitz, 3 N. Gay St., purchased site at Gay and Frederick Sts. and plan erecting furni-



ture factory; 5 stories; fireproof; frontage of 100 feet on Frederick St. and 92 feet on Gay St. and depth of 165 feet; adjoins present plant; Otto G. Simonson, architect, Maryland Casualty Tower.

Mo., St. Louis.—Cabinets and Fixtures.—Specialty Cabinet & Fixture Co., capital stock \$2000, incorporated by William A. Joos of St. Louis, Herbert L. Spradling of Webster Groves, Mo., and James H. Sentenne of Kirkwood, Mo.

N. C., Asheville.—Columns.—A. P. Smith, representing Pennsylvania company, is considering establishment of plant in Western North Carolina for manufacture of wooden columns. Address: Care Sanford H. Cohen, manager, Greater West North Carolina Association.

N. C., Durham.—Buggies.—Durham Buggy Co. increased capital stock from \$125,000 to \$160,000.

N. C., Gastonia.—T. A. Henry will erect building for woodworking plant; two stories; brick; 50x96 feet.

Okla., Olney.—Staves and Heading.—Oklahoma Stave & Heading Co., capital \$2000, incorporated by B. F. Harrison, G. L. Kennedy, E. D. Miller and J. D. Caffen, Atoka, Okla.

Tenn., Harriman.—Cooperage.—Watts Cooperage Co., capital stock \$20,000, incorporated to manufacture circular heading, etc.; J. H. Watts, president; W. H. Watts, vice-president; Eva Foster, secretary.

Tenn., Nashville.—Patterns.—J. D. Tipple of Youngstown, O., will establish plant to manufacture wood patterns for castings; plant to be known as Nashville Pattern Works.

### BURNED

Ala., Birmingham.—Orpheum Theater damaged; loss about \$5000; L. Semon, local manager.

Ala., Decatur.—W. J. Bryant's store and residence; Sheats Bros.' store and residence; loss \$15,000.

Ala., Huntsville.—Mrs. P. Milligan's building; loss \$5000.

D. C., Washington.—Lowry estate's building at 14th and Q Sts. N. W.; loss \$4000.

Fla., Jacksonville.—H. C. Halsema Manufacturing Co.'s lumber plant.

Fla., Lynn Haven.—May Hotel; loss \$4000 to \$5000.

Fla., Tampa.—El Nacional Cigar Co.'s cigar factory damaged; loss \$5000.

Fla., Tampa.—P. G. Fernandez Cigar Co.'s factory; loss on buildings, owned by Santos Buzaglio of Chicago, Ill., \$5000.

Ga., Blakely.—Blakely Laundry Co.'s plant; W. W. Baker, manager.

Ga., Cordele.—Georgia Hotel; loss \$3500.

Ga., Rebecca.—Hartley & Paulk's store; J. M. Wilcox's store; R. C. Gilmore's store; total loss \$8000.

Ga., Waynesboro.—Corker Warehouse Co.'s building.

Ga., Waynesboro.—Stores of N. P. Thomas, Mehal & Son, C. P. Daniels' Sons, Barger-son & Co., Williams Union Candy Co. and D. N. Humphrey & Son; total loss about \$100,000.

Ky., Danville.—J. T. Hammond's store and residence; loss \$3000.

Ky., Louisville.—Jack Glenson's residence on 18th Street Rd.; loss \$4000.

Ky., Marlon.—Farmers' Bank; Marlon Hotel; loss \$15,000.

Ky., Raywick.—J. W. Horene's residence; loss about \$13,000.

La., Lake Charles.—Le Blanc Hotel; loss \$12,000.

La., Morgan City.—L. S. Clary's residence; Colored Independent Order of Odd Fellows' hall; total loss \$7000.

Md., Baltimore.—Bungalow at Green Spring Ave. near 41st St., owned by Lewis Minks, president of National Badge & Button Co., 511 E. Baltimore St.; loss \$15,000.

Md., Baltimore.—Stable owned by Piel Construction Co., 2513 Edmondson Ave.; loss on building about \$4000.

Miss., Columbus.—W. L. Ussery's residence; loss \$30,000.

Miss., McComb.—L. H. Marsalis' steam bakery; loss \$3000.

Mo., St. Louis.—Dr. H. B. Erdhaus' residence at 7222 Oakland Ave.; loss \$4000.

Okla., Sulphur.—E. W. Fagan's residence; loss \$3000.

S. C., Hartsville.—J. W. Davis' building, occupied by T. H. King, Singer Sewing Machine Co. and others.

Tenn., Cookeville.—O. E. Cameron's residence; loss \$7000 to \$10,000.

Tenn., Cookeville.—Jesse Arnold's residence; loss \$3000.

Tenn., Henderson.—Hardeman Hardware Co.'s store, loss \$35,000; Chester county courthouse, loss \$15,000 (address County Commissioners); Baird Drug Co.'s building, loss \$5000; Cheatham Bros.' store, loss \$4500.

Tenn., Knoxville.—Knoxville Knitting Mills' bleachhouse; loss \$5000 to \$7000.

Tenn., La Follette.—Methodist church South, loss \$7000 to \$7500; Rev. C. H. Varner, pastor.

Tenn., Nashville.—Charles A. Bowman's residence at 916 Montrose Ave.

Tex., Brownsville.—B. Savy's residence.

Tex., Brownsville.—Mrs. Belle Lang's residence; loss \$3000.

Tex., Dallas.—Buildings at Lake Cliff Park, including skating rink, amusement devices, etc.; owned by Charles A. Mangold; loss about \$50,000; Scott Miller's two cottages on Lang's Blvd.; loss \$3000 to \$4000.

Tex., Ennis.—Bohemian Gymnastic Club's clubhouse near Ennis; loss \$3000.

Tex., Paris.—J. H. Johnston's cotton gin; loss \$6000.

Tex., San Antonio.—Dalkowitz Bros. Dry Goods Co.'s store; loss \$175,000.

Tex., San Antonio.—Staacke Bros. Automobile Co.'s garage; Dalkowitz Bros. Co.'s store building; total loss, \$195,000.

Tex., San Marcos.—Boarding-house owned by S. Munford; loss \$6000.

Tex., Sweetwater.—Sweetwater Livery Co.'s building, owned by Tom Trammell; loss \$7500.

Va., Petersburg.—Jacob Savage's planing mill; loss \$100,000.

Va., Sowers.—Floyd Electric Power Corporation's roller mill; estimated loss, \$6000.

Va., Norfolk.—Ledger-Dispatch Publishing Co.'s plant damaged; loss \$50,000 to \$60,000.

Va., Warrenton.—Warrenton Planing Mill Co.'s planing mills and lumber yards; estimated loss, \$10,000 to \$12,000.

W. Va., Charleston.—Tanners & Dyers' Extract Co.'s leachrooms; loss \$25,000 to \$35,000.

W. Va., Clarksburg.—Edward Grandison Smith's residence; loss \$30,000.

W. Va., Parkersburg.—C. P. Martin Wholesale Grocery Co.'s warehouse; Miller Furniture Co.'s building.

### DAMAGED BY STORM, ETC.

Ky., Paducah.—Dickerson Tobacco Co.'s plant damaged; loss on building about \$10,000.

Ky., Shelbyville.—Stock barn owned by D. T. Vories of Milton, Ky.; loss \$6000.

Va., Big Island.—Bedford Pulp & Paper Co.'s dam demolished, estimated loss \$10,000, and mill damaged, estimated loss \$5000; main office, Richmond, Va.

## BUILDING NEWS

### BUILDINGS PROPOSED

#### APARTMENT-HOUSES

Fla., Jacksonville.—S. S. Goffin will erect three-story apartment-house and store building at 16th and Main Sts.; stores on first floor, apartments above.

Fla., Jacksonville.—Atlantic & Gulf Investment Co. has plans for store and apartment building. (See "Stores.")

Fla., Jacksonville.—L. C. Denmark contemplates erection of store and apartment building at Ashley and Main Sts.; six stories.

Fla., Miami.—D. G. Farr will erect store and apartment building. (See "Stores.")

Fla., St. Petersburg.—C. A. Millen will erect 12-room apartment-house on Second Ave.

Fla., St. Petersburg.—C. A. Millen will erect apartment-house; 12 rooms.

Ga., Atlanta.—Miss Linde is having plans prepared by A. Ten Eyck Brown, Forsyth Bldg., Atlanta, for apartment-house; 45x145 feet; 2½ stories; eight apartments; steam heat; brick and ordinary construction; slate roof; cost \$30,000; plans ready about April 10.

Ga., Atlanta.—Wyche Construction Co. will erect two-story brick-vener apartment-house at 212 Washington St.; cost \$10,000.

Ga., Savannah.—H. O. Young, 2314 Bas-sard St., will erect two-story frame apartment-house on 40th St.; six-room apartments; frame; ordinary construction; grates; gas and electric lighting; old-style tin roof; cost \$5500; plans by owner.

Ky., Louisville.—E. G. Chatham will erect frame apartment-house at 1062 28th St.; cost \$3500.

Ky., Paris.—Mayor J. T. Hinton will erect apartment-house on High St.

La., New Orleans.—Consolidated Realty & Manufacturing Co., Ltd., P. Forchler, president, 725 Audubon Bldg., is having plans prepared for apartment-house and 15 double cottages on Oniston St., and will soon receive bids for erection.

La., New Orleans.—Aby Miller will erect duplex apartment-house on Peters Ave.

La., New Orleans.—J. B. Gribble will erect duplex apartment-house on Joseph St.

Md., Baltimore.—William H. Baker, Jr., Courtland and Saratoga Sts., will erect two three-story brick apartment-houses on Linden Ave. near Chauncey St.; brick; steam heat; 18 apartments; cost \$30,000; plans reported to have been prepared by John Freund, Jr., 508 Hoffman Bldg., Baltimore.

Md., Baltimore.—Clyde N. Friz, Maryland Casualty Tower Bldg., purchased site on northeast side of Stony Run, and will later erect apartment-house.

Md., Baltimore.—Homewood Apartments Co. is having plans prepared by E. H. Gilden and C. N. Friz, Maryland Casualty Tower Bldg., Baltimore, for three-story addition to Homewood Apartments on Charles St. near 31st St., in addition to extension under construction; 30x68 feet; cost \$30,000.

Mo., St. Louis.—Henry Ascher, president of West End Hardware & Electric Co., will erect three-story apartment building at Hamilton and Von Versen Aves.; brick and terra-cotta; 24 apartments of four rooms and bath; cost \$50,000.

Mo., St. Louis.—Thomas E. Taylor will erect double flat building; suites of three rooms and bath; cost \$6000.

Mo., St. Louis.—Hoepfner Investment Co., Joseph J. Hoepfner, president, will erect five double apartment-houses to accommodate 20 families; three-room-and-bath apartments; cost \$30,000; plans by Otto Kubatsky, St. Louis; will also erect store and tenement building at 23d and Angelica Sts.

Mo., St. Louis.—Henry Hass will erect two-story tenement-house at 4740-42 S. Broadway; cost \$5500.

Mo., St. Louis.—William J. McNery will erect single four and five-room flat on Kennerly Ave.

N. C., Durham.—R. H. Wright is having plans prepared for eight flats on E. Main St.

N. C., Durham.—George W. Watts will not erect apartment-house as recently reported.

N. C., Wilmington.—C. P. B. Mahler, 23 S. 2d St., has plans by Grossmann-Mahler Co. for apartment-house; 33x84 feet; ordinary or mill construction; hot-water heat; slate roof; cost \$7500. (Recently noted.)

S. C., Greenville.—Drs. E. W. Carpenter and R. E. Houston contemplate erection of apartment-house.

Tenn., Chattanooga.—Realty Trust Co., incorporated with \$300,000 capital stock; J. S. Rodrigues, president; A. W. Chambliss, vice-president; E. S. Newton, secretary-treasurer; is having plans prepared by R. H. Hunt, house; reported as to be eight stories; fireproof; two stores on lower floor; architect states plans not yet prepared. (Recently noted under "Bank and Office.")

Tenn., Memphis.—J. W. Sanford will erect 28-room brick and stone apartment-house at McLeMORE Ave. and Stock Yards Court; cost \$8000.

Tex., Houston.—Edwin and Dr. George W. Larendon contemplate erecting store and apartment-house. (See "Stores.")

Va., Newport News.—J. E. Warren Company is having plans prepared by Shepherd & Peale, Inc., and Chas. K. Bryant, Richmond, Va., for five-story apartment-house; cost \$60,000.

Va., Norfolk.—H. W. Simpson, Paul-Gale-Greenwood Bldg., Norfolk, prepared plans for apartment-house in Stockley Gardens.

Va., Norfolk.—S. Friedberg is reported as contemplating erection of apartment-house at Graydon Park and Blow St.

Va., Norfolk.—W. H. Mercer will erect three-story brick apartment-house.

Va., Richmond.—H. L. Hofheimer is having plans prepared by Shepherd & Peale, Inc., and Chas. K. Bryant, Richmond, for five flats.

Va., Richmond.—Guy N. Belcher, 103 Main Street Bank Bldg., will erect apartment and store building. (See "Stores" and "Machinery Wanted.")

Va., Richmond.—R. L. Gill will erect tenement-house to contain two stores at 325-27 N. 5th St.; brick; two stories; cost \$8000.

### ASSOCIATION AND FRATERNAL

Ark., Forest City.—Forest City Lodge No. 1219, Benevolent Protective Order of Elks, has plans by Aubrey D. Matthews for lodge building; three stories and basement. (Previously noted.)

Ga., Atlanta.—Joseph Habersham Division, Daughters of American Revolution, will erect chapter-house.

Ga., Atlanta.—Young Women's Christian Association plans to erect additional building to cost \$25,000.

Miss., Biloxi.—Improved Order of Red Men will erect lodge building.

Miss., Laurel.—Laurel Camp No. 173, Woodmen of the World, M. Schaubert, clerk, will let contract about August 1 to erect store and lodge building; 37.1x90 feet; two stories and basement; brick; cost \$6000. (Recently noted.)

Okla., Purcell.—Purcell Lodge No. 1260, Benevolent Protective Order of Elks, is having plans prepared for lodge building.

S. C., Charleston.—Walker & Burdon, architects, 42 Broad St., will receive bids until April 7 for alterations to Masonic Temple at King and Wentworth Sts., and for erection of two fire-escapes; plans, specifications and other information on application to architects as above.

Tex., San Saba.—Ancient Free & Accepted Masons, W. A. Smith, secretary of building committee, will receive plans and specifications until April 12 for two-story stone building; 30x100 feet.

W. Va., Elm Grove.—Fraternal Order of Eagles, Knights of Pythias and Woodmen of the World are reported as to erect joint lodge building.

### BANK AND OFFICE

Ala., Bay Minette.—Mayor Stapleton will erect building to contain bank and offices; 100x68 feet; fireproof construction; electric lighting; cost \$18,000; plans by John A. Wetzel, Mobile, Ala.

Ala., Birmingham.—Birmingham Trust & Savings Co. has plans by William Leslie Welton, Birmingham, for two-story fireproof addition to building; marble floors, wainscote and counters on first floor; second floor for offices with birch paneling; plans ready April 15; probable cost, \$25,000.

Fla., Ocala.—Merchants' Block, R. L. Martin, agent, accepted plans to remodel building; will replace present store fronts with plate glass and copper, provide additional offices on second floor, etc.

Ga., Atlanta.—Nunnally & McRea have plans by Walker & Chase, Candler Bldg., Atlanta, for office and warehouse to be occupied by Marcus Loeb & Co.; 60x200 feet; three stories and basement; concrete and mill construction; steam heat; tar and gravel roof; combination freight and passenger elevator; cost \$45,000; contract let within 30 days.

Md., Baltimore.—Title Guarantee & Trust Co., Edgar G. Miller, Jr., president, St. Paul and Lexington Sts., will erect addition to building on St. Paul St.; similar construction to present building; three stories; 25 feet front; contractors estimating are Henry Miller, Inc., 108 Dover St.; Morrow Bros., Fidelity Bldg.; B. F. Bennett Building Co., 123 S. Howard St.; John Hiltz & Son, 3 Clay St.; Walter E. Burnham, Law Bldg.; Edward Brady & Sons, 1109 Cathedral St., all of Baltimore.

Miss., Meridian.—S. H. Floyd has plans for office, store and theater building. (See "Theaters.")

N. C., Newbern.—People's Bank will expend \$20,000 to erect bank building; recently noted as having plans prepared by B. H. Stephens, Wilmington, N. C.

Okla., Tulsa.—R. T. Daniel will erect office and store building. (See "Stores.")

S. C., Clinton.—Jacobs & Co. purchased unfinished hotel and will modify plans and convert into office building; three stories; 73x106 feet; semi-fireproof construction; steam or hot-water heat; additional cost, \$8000 to \$10,000.

Tenn., Memphis.—Charles O. Pfeil, architect, 1403 Tennessee Trust Bldg., Memphis, states plans to erect 21-story bank and office building for Commercial Trust & Savings Bank will be ready about June 1; structure, 50x150 feet; steel and fireproof; indirect

and direct steam heat; two generators for lighting; four high-speed electric elevators; tile roof; cost \$500,000. (Contract recently erroneously noted awarded.)

Tex., Bremond.—R. B. Spencer, Waco, Tex., will erect three brick buildings 50x150 feet and two-story sheet-iron lumber shed; first building to be occupied by First National Bank of Bremond.

Tex., Dallas.—City National Bank will, it is reported, erect addition to bank building or erect new structure.

Tex., Dallas.—Lummus Cotton Gin Co., Columbus, Ga., has plans for office and warehouse building. (See "Warehouses.")

Tex., Denton.—Denton County National Bank will expend \$25,000 to erect bank and office building; 25x80 feet; two stories and basement; hot-water heat; electric lighting; gravel roof; M. B. Whitlock & Co., probable contractors. (Recently noted.)

Tex., Port Arthur.—C. M. Craig, president of Merchants' State Bank, is reported interested in erection of office building; two stories; 140x85 feet; exterior of white marble; tile street frontage; cost \$65,000.

Tex., Richmond.—First National Bank of Fort Bend County, J. R. Farmer, president, will erect bank building; floors finished with tile; metal ceiling; iron pillars and supports.

Tex., San Antonio.—J. G. Lentz, Commerce and Yturri Sts., will erect office building.

Va., Laurel (not a postoffice).—Cinchfield Coal Corporation, general offices, Dante, Va., it is reported, will erect brick commissary and office building.

Va., Smithfield.—W. D. Foulk has plans for office and store building. (See "Stores" and "Machinery Wanted.")

W. Va., Shinnston.—Farmers' Bank is having plans prepared by S. W. Ford, Clarksburg, W. Va., for bank building.

## CHURCHES

Ala., Birmingham.—St. Andrews Episcopal Church, Rev. Willis G. Clarke, rector, will erect church building at Eleventh Ave. and St. Charles St.

Ala., Birmingham.—Rev. Bob Jones is interested in erection of tabernacle with seating capacity of 10,000.

Fla., Sarasota.—Methodist church will erect building; brick and stone; main building 50x70 feet; 20-foot ceilings; cost \$15,000. Address The Pastor, Methodist Church.

Fla., West Palm Beach.—Baptist church will erect church building; brick; four classrooms in basement; cost \$17,000. Address The Pastor, Baptist Church.

Ga., Augusta.—Woodlawn Baptist Church, Rev. R. E. L. Harris, pastor, plans to expend \$25,000 to improve church building.

Ky., Benton.—Baptist Church will erect Sunday-school addition; 32x48 feet; brick; heating and lighting not determined; shingle or metallic roof; cost about \$3000; architect not selected; proposals may be addressed to J. L. Price. (Recently noted.)

La., Algiers, Station A, New Orleans.—Presbyterian Church plans to erect church building; Rev. A. O. Browne, city missionary.

La., New Orleans.—Carrollton Ave. Methodist Church, Rev. J. M. Snelling, pastor, will erect church building; cost about \$25,000.

La., New Orleans.—St. Matthew's Evangelical Church will erect church, Sunday-school and parsonage. Address The Pastor, St. Matthew's Evangelical Church.

Miss., Brookhaven.—First Baptist Church, N. T. Tull, secretary of building committee, receives bids until April 30 to erect building; three stories; brick; plans and specifications obtainable on deposit of \$15; separate bids received for heating, plumbing and electric wiring. (Previously noted.)

Miss., Fayette.—Presbyterian Church, Rev. J. G. Johnston, pastor, will erect church building.

N. C., Carthage.—Presbyterian church has plans by J. M. McMichael, Charlotte, N. C., for building recently noted; brick; hot-water heat; electric lighting; slate roof; cost \$8000; no contract; J. K. Roberts may be addressed. (See "Machinery Wanted.")

N. C., Kinston.—First Baptist Church, Rev. C. W. Blanchard, pastor, has plans by J. M. McMichael, Charlotte, N. C., for church and Sunday-school building; 54x126 feet; brick; heating and lighting not determined; slate roof; cost \$35,000. (Recently noted.)

S. C., Columbia.—Second Baptist Church, Rev. W. D. Wakefield, pastor, Union, S. S., will erect church building; Rev. E. W. Sanders, supply pastor.

N. C., Creedmoor.—Methodist congregation

plans to erect church building. Address The Pastor, Methodist Church.

S. C., Kingstree.—Williamsburg Presbyterian congregation will expend \$10,000 to \$11,000 to erect building; 46x92 feet; ordinary construction; probably hot-air heat; tin roof; plans by Walker & Burden, 42 Broad St., Charleston, S. C. (Recently noted to receive bids until April 12.)

Tenn., Knoxville.—People's Tabernacle will let contract about May 1 to erect building recently noted; 75x40 feet; mill construction; heating, lighting and roofing undecided; cost \$5000; N. B. White, 1219 N. Third Ave., may be addressed. (See "Machinery Wanted.")

Tenn., Memphis.—St. Paul's Methodist Episcopal Church, Rev. J. L. Hunter, pastor, will erect church building; cost \$25,000; J. M. Means, B. E. Savage, J. J. Crump and others, building committee.

Tenn., Murfreesboro.—Presbyterian church will rebuild church building recently damaged by storm; cost \$20,000; William Draper, P. A. Lyon and others, committee.

Tex., Coleman.—First Baptist Church, Rev. J. J. Kellum, pastor, will erect brick church building; cost \$25,000.

Tex., Dallas.—Oak Lawn Methodist Church will erect church building; B. M. Burgher, chairman of building committee.

Tex., Dallas.—All Saints' Episcopal Church, John A. Pope, senior warden, will erect church building.

Tex., Eagle Lake.—Presbyterian church will erect church building. Address The Pastor, Presbyterian Church.

Tex., Franklin.—Baptist church will erect church building to replace structure recently damaged; cost \$10,000. Address The Pastor, Baptist Church.

Tex., Henrietta.—Baptist Church will remodel church building at cost of about \$10,000. Address The Pastor, Baptist Church.

Tex., Orange.—First Baptist Church, Rev. J. S. Pearce, pastor, is considering plans by E. W. Phillips, Lake Charles, La., for church building to cost about \$25,000. (Recently noted.)

Tex., Port Lavaca.—Baptist Church will erect church building. Address The Pastor, Baptist Church.

Va., Edinburg.—Mt. Calvary Union Church will erect church building to replace present structure. Address The Pastor, Mt. Calvary Union Church.

Va., Front Royal.—Baptist Church is having plans prepared by Shepherd & Peale, Inc., and Chas. K. Bryant, Richmond, Va., for church building.

Va., Glenallen.—Glenallen Baptist Church, Rev. W. H. Lawson, pastor, will erect eight-room Sunday-school addition; furnace heat; slate roof; cost \$2500; plans by C. E. Lacy.

Va., Norfolk.—St. Paul's Episcopal Church has plans by Ferguson, Calrow & Taylor, Norfolk, to remodel church building; colonial style; will install flagstone aisles, hardwood floors, box stall pews, vestibules, electric lights; rebuild organ and install pneumatic control for same; bids in except on organ.

W. Va., Charleston.—First Presbyterian Church is having plans prepared by Weber, Werner & Adkins, Cincinnati, O., for church building; Italian renaissance; main auditorium to seat 1100 and Sunday-school to seat 800 to 1000; cost \$100,000.

W. Va., Charleston.—Methodist Episcopal Church South, Rev. G. W. Banks, pastor, opens bids in August to erect building; 80x90 feet; brick or stone; steam heat; electric lighting; slate or tile roof; cost \$75,000; plans by H. Rus Warne, Charleston; proposals may be addressed to J. R. Shank-lai. (Recently noted.)

W. Va., Charleston.—Lawrence Methodist Episcopal Church, Rev. W. A. Bliss, pastor, plans to improve church building; will raise structure, build basement, provide choir loft, install pews, etc.

## CITY AND COUNTY

D. C., Washington.—Hospital.—District Commissioners have plans by Nathan C. Wyeth, 1517 H St. N. W., Washington, for Emergency Hospital to cost ultimately \$300,000; has \$50,000 appropriation; eight stories; fireproof; brick; terra-cotta trimmings; 100x107 feet; elevators; 130 beds; roof garden.

Fla., Barton.—Library.—City will expend \$10,000 to erect Carnegie library; plans not complete; information on application to W. S. Preston. (Recently noted.)

Fla., Miami.—Hospital and Fire Department.—City will vote May 13 on \$170,000 bond issue, including \$30,000 to establish and equip

fire department and \$10,000 to acquire and equip hospital. Address The Mayor.

Fla., West Tampa, Station Tampa.—Library. City has plans by John W. Biggar, West Tampa, for Carnegie Library; cost \$17,500. (Recently noted.)

Ga., Bainbridge.—Library.—City plans to erect \$10,000 Carnegie Library. Address The Mayor.

Ga., Dawson.—Library.—City plans to erect \$10,000 Carnegie Library. Address The Mayor.

Ky., Louisville.—Library.—Building committee of Louisville Free Public Library, Fourth Ave. and Library Pl., receives bids until April 9 to erect Eastern Colored Branch Library building; 60x80 feet; fireproof; hot-water heat; tile roof; cost \$17,500; plans and specifications at office of Fred Erhart, architect, Norton Bldg., Louisville; Building Contractors' Exchange, Realty Bldg., and 64 Walker Bldg. (Recently noted.)

La., New Orleans.—Engine-house.—E. A. Christy, city architect, and City Engineer Hardee are preparing plans for engine-house on Apple St. near Monroe St.; cost \$3000.

Md., Baltimore.—Isolation Hospital.—City will erect isolation hospital and physicians' house at Sydenham, near Bayview Asylum; cost about \$35,000; plans by Clarence E. Stubbs, Inspector of Buildings, City Hall.

Okl., Muskogee.—Library.—Library Board will receive bids until April 10 to erect Carnegie Library; 70x96 feet; semi-fireproof construction; tar and gravel roof; plans by Henry D. Whitfield, 160 Fifth Ave., New York. (Previously noted.)

Tex., Gainesville.—Library.—City, Lillian Gunter, librarian, will expend \$12,000 to erect library; 40x60 feet; two stories and basement; shingle or tile roof; architect not selected. (Recently noted.)

Tex., Van Alstyne.—Fire Station.—City is reported as to erect fire station; brick. Address The Mayor. (See "Water-works.")

Va., Farmville.—Armory.—City adopted plans and specifications for armory building; two stories; drill, reading and bath rooms, etc.; will also contain municipal offices. Address The Mayor.

Va., Richmond.—Police Station.—George E. Pollock, secretary Department of Police, will receive bids until April 8 to erect First Police Station; plans and specifications from A. F. Hunt, architect, 1107 E. Main St., Richmond, on deposit of \$5.

## COURTHOUSES

Ala., Huntsville.—Madison County Commissioners plan to expend \$60,000 to \$75,000 to remodel courthouse; resolution previously adopted providing for bond issue to erect new structure rescinded. (Recently noted.)

La., New Orleans.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., opened bids for interior finish of United States Courthouse according to plans by Hale & Rogers, 11 E. 24th St., New York; Norman Ker Company, Washington, D. C., is lowest bidder.

Okl., Tahlequah.—Cherokee county voted \$55,000 bond issue, \$40,000 of which is to purchase building and \$15,000 to remodel same for courthouse; John W. Sutton, chairman of County Commissioners.

S. C., Greenville.—A. B. Carpenter, B. F. Neves and J. D. Harris were appointed commissioners to arrange details for location and plans for proposed courthouse. (Recently noted.)

Tenn., Henderson.—Chester County Commissioners, it is reported, will erect courthouse to replace structure reported burned at loss of \$150,000.

Tex., Abilene.—Taylor county voted \$150,000 bond issue to erect courthouse; fireproof; hot-water heat preferred; probably tile roof; T. A. Bledsoe, County Judge. (Recently noted.)

## DWELLINGS

Ala., Birmingham.—H. Bowling has plans by Edgar L. Love, Birmingham, for dwelling.

Ala., Birmingham.—T. L. L. Delman will erect two-story frame dwelling at 908 Tuscaloosa Ave.; cost \$3500.

Ala., Birmingham.—Robert D. Mills will erect two-story brick-veneer dwelling at 1512 30th St.; cost \$4300.

Ark., Little Rock.—William Peterson will erect two-story brick-veneer residence at 2301 Broadway; cost \$16,000.

Fla., Jacksonville.—Mrs. Rhoda Miller will erect two-story concrete dwelling; cost \$3300.

Fla., Jacksonville.—N. H. Witschen will erect one-story frame dwelling; cost \$3000.

Fla., Jacksonville.—E. Barber will erect two dwellings on 9th St.; two stories; frame; cost \$14,000.

Fla., Jacksonville.—Dr. A. D. Williams will erect six small dwellings; also contemplates erection of other frame houses.

Fla., Jacksonville.—E. C. Rogers will erect one-story frame dwelling at 228 W. 11th St.; cost \$3200.

Fla., Leesburg.—Isaac D. Sperry will erect several dwellings.

Fla., Miami.—Mrs. L. A. Watkins will not erect residence, as recently reported.

Fla., Tarpon Springs.—J. E. Jackson will erect residence.

Ga., Atlanta.—M. C. Neal will erect two-story frame dwelling at 199 Euclid Ave. to cost \$4000 and expend \$7000 to repair fire damages at 135-7 Bell St.

Ga., Atlanta.—A. B. Buehl will erect five two-story frame dwellings and two one-story frame dwellings on 13th St.; day labor; cost \$35,000.

Ga., Atlanta.—M. R. McClatchey purchased 10-acre tract and will subdivide and erect dwellings; also awarded contract to erect three negro apartment-houses.

Ga., Augusta.—E. W. Hancock will erect three one-story frame dwellings on Ellis St.; cost \$3000.

Ky., Louisville.—Mrs. J. Valla, Jr., will erect brick dwelling at 2058 Sherwood Ave.; cost \$3200.

Ky., Louisville.—E. G. Morgan will erect brick dwelling at 1435 St. James Court; cost \$5000.

Ky., Pineville.—N. T. Arnett will erect two five-room brick cottages.

Ky., Pineville.—J. J. Gibson will erect two-story brick residence.

La., Houma.—Mrs. F. X. Bourg will rebuild residence; 39x66 feet; shingle roof. (Recently reported burned.)

La., Meeker.—F. G. Drouet will rebuild residence recently reported burned; 42x36 feet; two stories; brick and wood; hot-air or hot-water heat; acetylene gas lighting; cement and brick basement; slate, asbestos or shingle roof; cost \$4000 to \$5000; architect not selected. (See "Machinery Wanted.")

La., New Orleans.—Mrs. John Dibart will repair residence; cost \$15,000.

La., New Orleans.—P. J. Holmes purchased square at Banks, Baudin, Olympia and St. Patrick Sts. and will erect number of bungalows or cottages.

La., New Orleans.—P. Ciccio and associates will erect number of bungalows or cottages.

La., New Orleans.—Dr. M. Mansburg will erect two-story residence; cost \$3531.

La., New Orleans.—Mrs. J. B. Desangles will erect residence; two stories; cost \$4140.

La., New Orleans.—E. F. Sprol will erect bungalow on Gentilly Terrace.

La., New Orleans.—Mrs. M. Frisch will erect two-story residence at St. Claude and Pauline Sts.

La., New Orleans.—Mrs. R. B. Scudder is having plans prepared by Robert S. Soule, Hennen Bldg., New Orleans, for residence in Richmond Place.

La., New Orleans.—H. A. Otis will erect two-story residence at Walnut and Ann Sts.; 50x50 feet; three stories; stone construction; furnace heat; electric lighting; tile roof; cost \$12,000; plans by Francis J. MacDonnell, New Orleans, La., to whom proposals may be addressed.

La., New Orleans.—Frank Toro will erect two-story residence on St. Patrick St.

La., New Orleans.—N. J. Ciesi will erect summer residence.

La., New Orleans.—William Feldman will erect two bungalows.

La., New Orleans.—Hopkins & Rhodes will erect ten dwellings; completion by October 1.

La., New Orleans.—St. Matthew's Evangelical Church will erect parsonage, etc. Address The Pastor, St. Matthew's Evangelical Church. (See "Churches.")

La., New Orleans.—Miss Anna Burrar will erect two-story residence.

La., New Orleans.—Joseph Rodriguez, Donaldsonville, La., will erect residence.

La., New Orleans.—Thomas Capo will erect residence; two stories; tile roof; warm-air heat; tile floors.

La., New Orleans.—Consolidated Realty & Manufacturing Co., Ltd., P. Forchier, president, 725 Audubon Bldg., is having plans prepared for 15 double cottages, etc. (See "Apartment-houses.")

Md., Baltimore.—L. Irving German, 27-9 Law Bldg., has plans by Henry J. Tinley, 312 N. Charles St., Baltimore, for 21 cottages on White Ave., Clifton Park; two and a half stories; frame.



Md., Baltimore.—A. D. Clemens, Jr., 3021 York Rd., will erect five two-story dwellings on Talbot Ave., near 31st St.; frame; 12x34 feet; estimated cost \$4000; plans by Henry J. Tinley, 312 N. Charles St., Baltimore.

Md., Baltimore.—G. P. Klein, 4135 Frederick Ave., has plans by W. B. Gerwig, 1023 N. Fulton Ave., Baltimore, for 13 dwellings on Prestman St. near Rosedale Ave.; two stories; 21x35 feet; brick; steam heat; cost \$20,000.

Md., Baltimore.—Jackson Realty Co., 512 Equitable Bldg., has plans by Stanislaus Russell, 2900 Clifton Ave., Baltimore, for 10 dwellings on south side of Ridgewood Park; ordinary construction; steam heat; gas and electric lighting; slate roof; cost \$27,000; construction by owner.

Md., Baltimore.—M. Filmore Carter has plans by Stanislaus Russell, 2900 Clifton Ave., Baltimore, for 19 two-story dwellings on east side of Remington Ave.; 14x46 feet; ordinary construction; steam heat; gas and electric lighting; tin roof; cost \$35,000; construction by owner. (Previously noted.)

Md., Baltimore.—Joseph C. Carter will expend \$15,000 to erect six dwellings on Ellamont St. near Mondawmin Ave.; two stories; 21x36 feet; brick; ordinary construction; steam heat; gas and electric lighting; slag roof; plans by Stanislaus Russell, 2900 Clifton Ave., Baltimore; construction by owner. (Previously noted.)

Md., Baltimore.—John J. Carlin, 215 St. Paul St., has plans by Stanislaus Russell, 2900 Clifton Ave., for seven dwellings on Poplar Grove St., corner of Belmont Ave.; 14x52 feet; ordinary construction; steam heat; gas and electric lighting; slate roof; cost \$11,500; construction by owner. (Recently noted.)

Md., Baltimore.—James B. Yeatman, 4742-A Pimlico Blvd., has plans by Stanislaus Russell, 2900 Clifton Ave., Baltimore, for 38 dwellings and one store on Garrett Ave. between 20th and 21st Sts.; 14x52 feet; brick; steam heat; gas and electric lighting; slag roof; cost \$75,000; construction by owner.

Md., Baltimore.—August Weber, president of German Bank of Baltimore City, Baltimore and Holliday Sts., has plans by Joseph F. Hirt, 744 N. Kenwood Ave., Baltimore, for four dwellings on Darley Ave. and six on Germania Ave.; two 15x53 and eight 15x42 feet each; iron spot brick.

Md., Baltimore.—Provident Realty Corporation, Garrison and Piedmont Aves., has plans by Henry J. Tinley, 312 N. Charles St., Baltimore, for cottage on Elsinor Ave., near Piedmont Ave.; 26x32 feet; frame; steam heat; electric lighting; slate roof; cost \$3500; construction by owner.

Md., Cumberland.—Ira R. Twigg will erect residence; two stories; frame; 26x46 feet; slate and ruberoid roof.

Md., Cumberland.—Ira R. Twigg, 151 Maryland Ave., will erect several dwellings; two stories; frame; 27x48 feet; mill construction; natural-gas heat; electric lighting; rubber felt roofing; cost \$1000 each; plans and construction by owner. (See "Machinery Wanted.")

Mo., Kansas City.—T. R. Wheelock will erect one stucco and one frame dwelling at 3912 Charlotte St. and 36 W. 58th St.; cost \$7000.

Mo., Kansas City.—U. Perrine will erect seven stucco dwellings in 3300 block College St.; cost \$15,700.

Mo., Kansas City.—F. P. King will erect four stone-veneer dwellings in 3300 block College St.; cost \$10,000.

Mo., Kansas City.—G. W. Goodlander will erect brick-veneer dwelling at 2613 Charlotte St.; cost \$3700.

Mo., Kansas City.—Whaley & Chandler will erect four frame dwellings in 5500 block Tracy St.; cost \$5000.

Mo., Kansas City.—B. H. Hagerman will erect three frame dwellings in 1900 block Spruce St.; cost \$1200.

Mo., Kansas City.—Karl Rudolph will erect brick dwelling at 1009 E. 47th St.; cost \$3500.

Mo., Kansas City.—D. F. Calwages will expend \$5750 to erect dwelling; 42x26 feet; ordinary construction; stone and stucco; heating not decided; electric lighting; shingle roof; plans and construction by owner. (Recently noted.)

Mo., Kansas City.—S. C. Lee will erect \$25,000 residence.

Mo., Kansas City.—F. J. Shubert will erect stucco dwelling at 5712 Wyandotte St.; cost \$5000.

N. C., Beaufort.—F. B. Brunyate has plans by C. Simpson, Beaufort, for 15-room dwelling; hot-water heat; cost \$7500.

N. C., Charlotte.—Mrs. Millie I. Abernathy

will erect six-room bungalow on Park Ave.; cost \$3552.

N. C., Charlotte.—Mrs. Hamilton C. Jones will erect residence in Myers Park.

N. C., Charlotte.—Ernest Ellison is having plans prepared by Hunter & Gordon, Charlotte, for residence in Myers Park; seven rooms; two stories; first story, stucco; frame; heating not decided; electric lighting; shingle roof.

N. C., Charlotte.—Ralph Van Landingham will erect residence in Chatham Estates; shingles; hot-water heat; tile roof; cost \$7500; plans by Hook & Rogers, Charlotte.

N. C., Winston-Salem.—W. H. McGee is having plans prepared by Conrad Hoefler for residence on Summit St.

N. C., Greensboro.—Arthur Ellington will erect residence.

N. C., Spencer.—L. T. Royall, 408 A St. S. E., Washington, D. C., will expend \$1800 to \$2000 each to erect two bungalows; six and seven rooms; electric lighting; shingle roof; contemplates erection of six to ten more. (Recently noted.)

S. C., Anderson.—Mrs. Berraregard has plans by J. H. Casey, Greenwood, S. C., for residence; cost several thousand dollars.

S. C., Charleston.—G. H. Marchbank is having plans prepared by J. H. Casey, Greenwood, S. C., for brick-veneer residence; slate roof.

S. C., Charleston.—M. B. Barkley will erect residence at 128 S. Bay St.; material purchased; reported cost \$10,000.

S. C., Greenwood.—D. A. Outz has plans by J. H. Casey and S. M. Vance, associated architects, Greenwood, for residence; 36x55 feet; brick veneer; steam heat; electric lighting; slate roof; cost \$10,000.

S. C., Greenville.—William G. Sirrine is reported as having plans prepared for residence.

S. C., Orangeburg.—Commissioners of Fisheries, Department of Commerce, Washington, D. C., receive bids until April 23 to erect superintendent's residence. (See "Government and State.")

S. C., Johnsonville.—E. F. Prosser is reported as to erect several rent cottages.

Tenn., Bristol.—R. F. Wagner will erect two bungalows.

Tenn., Memphis.—Speedway Terrace Building Co. will erect 10-room brick and stucco residence at 1111 Tutwiler Ave. and building at 1040 Tutwiler Ave.; cost \$10,000.

Tenn., Nashville.—E. K. Tardison will erect brick-veneer building at Hillsboro pike and Pierce Ave.; cost \$3000.

Tenn., Nashville.—A. J. Lucas will erect \$3000 residence at 1503 Buchanan St.

Tex., Bay City.—Sid J. Robinson will erect residence.

Tex., Brenham.—Albert Winklemann will erect \$3000 residence.

Tex., Dallas.—Bishop J. P. Lynch will erect two-story 12-room brick veneer residence; cost \$12,800.

Tex., Dallas.—J. A. Traylor will erect two two-story eight-room residences and five-room frame cottage; cost \$9000.

Tex., Dallas.—Miss Mattie McBride will erect two-story 12-room frame residence; cost \$5000.

Tex., Dallas.—W. T. Bray will erect two-story nine-room frame residence; cost \$4000.

Tex., Dallas.—H. C. Clark will erect 20-room two-story frame residence; cost \$7000.

Tex., Dallas.—Jasper Collins will erect one five-room and one seven-room frame cottage on Worth St.; cost \$3100.

Tex., Dallas.—T. E. Shutt will erect one two-story eight-room frame residence and one five-room frame cottage on Beckley Ave.; cost \$5300.

Tex., Dallas.—Will Stratton will erect seven-room two-story frame dwelling at 1211 Apple St.; cost \$4000.

Tex., Dallas.—Hale Davis will erect two five-room frame cottages on Madison St.; cost \$3000.

Tex., Dallas.—L. S. White will erect 12-room two-story frame residence at 1802 Mosher St.; cost \$3500.

Tex., Dallas.—J. R. Atteberry will erect three five-room frame cottages; cost \$3000.

Tex., Luling.—First Methodist Episcopal Church will erect parsonage. Address The Pastor, First Methodist Episcopal Church.

Tex., El Paso.—A. J. Fullen will erect residence in Manhattan Heights; two stories; brick; cost \$12,000.

Tex., El Paso.—Perry-Kirkpatrick Realty Co. will erect two-story brick residence on North Campbell St.; cost \$5000.

Tex., Galveston.—Antone Brunner will erect seven-room residence on Garrett St.; cost \$3500.

Tex., Port Arthur.—Buford Twyman, Versailles, Ky., will erect six-room residence. (See "Stores.")

Tex., San Antonio.—H. A. Wood will erect two-story dwelling on Washington Pl.; cost \$4000.

Tex., San Antonio.—C. Y. Bailey will erect two-story dwelling on Mistletoe Ave.; cost \$4000.

Tex., San Antonio.—R. J. Boyle will erect eight-room dwelling on Clarey Ave.; cost \$4000.

Tex., Waco.—McLarty, Duke & Higginbotham are reported as to erect one five-room and one six-room dwelling; cost \$7750.

Tex., Waco.—E. Beckley will erect eight-room residence on North 15th St.; cost \$3100.

Va., Alexandria.—H. P. Wilson, New York, will erect residence on property recently purchased near Alexandria; Frank Van Sant, 712 Southern Bldg., Washington, D. C., attorney for Mr. Wilson, writes Manufacturers Record: "Architect and character of building not determined; final plans will be completed probably within next two weeks; dwelling will be two stories, cellar and attic; 70x40 feet, with servants' wing; red brick." (Recently noted.)

Va., Guinea.—Mrs. Clara H. Coldiron will erect residence.

Va., Norfolk.—Mrs. Rufus Parks will erect brick residence; cost \$10,000.

Va., Norfolk.—Charles L. Withrow will erect two frame residences on 28th St. near Granby St.; cost \$4000.

Va., Richmond.—Robert A. Gill will erect building to contain two stores and two dwellings at 325-27 N. 5th St.; cost \$8000.

Va., Richmond.—A. L. Sharp and H. S. Winston will erect dwelling at 1804 Grove Ave.; two stories; brick; cost \$7000.

Va., Richmond.—M. Schuab will erect two-story brick dwelling at 2602 W. Grace St.; cost \$5400.

Va., Richmond.—W. H. Markham is having plans prepared by Shepherd & Peale, Inc., and Chas. K. Bryant, Richmond, for residence in Highland Park.

Va., Richmond.—H. R. Harris will erect two-story brick dwelling at 2707 W. Grace St.; cost \$8400.

Va., Zuni.—Dr. G. H. Richardson is having plans prepared by Shepherd & Peale, Inc., and Chas. K. Bryant, Richmond, for residence.

W. Va., Bluefield.—Mr. Mahood of Miller & Mahood and Otis St. Clair will erect two six-room dwellings in addition to two under construction.

W. Va., Elm Grove.—Frank Stender will erect three dwellings; two stories; five rooms each.

W. Va., Elkins.—M. J. Wilmerding will erect brick residence.

W. Va., Wheeling.—Richland Coal Co., J. C. McKinley, president and manager, will erect 50 dwellings. (See "Coal Mines and Coke Ovens.")

## GOVERNMENT AND STATE

D. C., Washington.—School and Powerhouse.—Sealed proposals received at Washington Barracks until April 26, 1913, to erect engineer school and power-house annex; W. J. Barden, Major, Engineers.

La., Jackson.—Hospital.—East Louisiana Hospital for Insane is receiving estimates to erect fireproof hospital for criminal insane; to include two two-story reinforced concrete buildings; steam heat; composition roofing; plans by Favrot & Lavaudais, Perine Bldg., New Orleans, La. (Recently noted.)

La., New Orleans.—Leper Home.—Board of Control for Louisiana State Leper Home, P. E. Burk president, H. C. Billaud secretary, will receive bids until April 24 to erect refectories, kitchen, laundries and cottage at said home; plans and specifications at office of Diboll, Owen & Goldstein, Ltd., architects, Perrin Bldg., New Orleans, or may be had on deposit of \$25.

Md., Baltimore.—Hospital.—H. R. Carter, custodian of United States Marine Hospital, will receive bids until April 10 for miscellaneous repairs, etc., at hospital; cost \$7000; plans and specifications may be obtained on application.

Mo., Jefferson City.—Capitol.—J. Kelly Pool, secretary State Capitol Commission Board, will receive bids until April 21 to construct foundation for \$3,500,000 State Capitol building; plans and specifications at office of Tracy & Swartwout, architects, 244 Fifth Ave., New York, or may be had on deposit of certified check for \$25. (Recently noted.)

Mo., Springfield.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., opened bids to erect extension; General Construction Co., Milwaukee, Wis., is lowest bidder at \$96,606. (Recently noted.)

S. C., Orangeburg.—Residence.—Commissioners of Fisheries, Department of Commerce, Washington, D. C., receive bids until April 23 to erect superintendent's residence near Orangeburg; for blank proposals, specifications, plans and particulars, address commissioners as above.

Tex., Weatherford.—Postoffice.—Treasury Department, Oscar Wenderoth, supervising architect, Washington, D. C., opened bids to erect postoffice; Tom Lovell's Sons, Enid, Okla., are lowest bidders at \$62,594 for limestone and \$64,058 for sandstone construction. (Recently noted.)

Va., Staunton.—Barn.—Bids received until April 1 by Sproul & Crowley to erect barn on farm of experiment station near Staunton; plans and specifications from E. R. Hodgson on farm.

## HOTELS

Fla., Indianola.—J. Northup of Marion, O., purchased Indianola Hotel property and will, it is reported, erect hotel to replace burned structure; concrete; accommodations for 200 guests.

Fla., Clearwater.—Chamber of Commerce, H. W. Bivins, president, is promoting erection of hotel; 100 rooms; wood or brick construction; cost \$50,000 to \$75,000.

Fla., Jacksonville.—C. C. Clayton, 938 W. Bay St., plans to erect brick hotel on E. Forsyth St. Mr. Clayton wires Manufacturers Record: "Hotel will be named The Clyde; 44x105 feet; seven stories; 74 rooms and 74 baths; cost \$50,000; Mark & Sheftall, architects, Jacksonville."

Fla., Key West.—J. A. Willis and others will organize company to erect hotel recently noted; 122x158 feet; five stories; ordinary construction; no heating plant; gas and electric lighting; asbestos roof; cost \$100,000; architect not employed; prospective plans only have been made; desires to correspond with contractors. (See "Machinery Wanted.")

Fla., Miami.—Forbes Pioneer Boat Lines Co., F. A. Forbes, vice-president, contemplates building commercial hotel on Ritta Island. (See "Miscellaneous Enterprises.")

Fla., St. Petersburg.—W. H. Adams, manager and owner of Manhattan Hotel, will erect addition; 50 rooms; cost \$25,000.

Ky., Louisville.—W. C. Hoeftlin, it is reported, contemplates erection of hotel.

La., Crowley.—Egan Hotel Co. will erect hotel; three stories; lower floor for stores.

N. C., Charlotte.—Mutual Trust Co., C. O. Brown, president, will erect bachelor hotel; 60x84 feet; three to four stories; brick; ordinary construction; steam heat; electric lighting; electric elevator; 15 to 20 baths; tile and marble for foyer and lobby; plans by Hunter & Gordon, Charlotte; bids opened about April 25; cost \$40,000 to \$50,000.

N. C., Greensboro.—Gullford Hotel Co., A. H. Galloway, president, will erect annex to hotel; four stories; brick; 65x100 feet; 40 to 50 rooms. (Recently noted.)

N. C., North Wilkesboro.—Gordon Hotel Co. soon opens bids to erect hotel; 150x140 feet; fireproof construction; steam heat; electric lighting; metal roof; cost \$35,000; architects and contractors invited to submit plans and estimates. Recently noted incorporated with \$125,000 capital stock by J. B. Finley and others. (See "Machinery Wanted.")

S. C., Anderson.—E. B. Gresham, Spartanburg, S. C., is reported as contemplating erection of hotel.

S. C., Charleston.—Chamber of Commerce, which is promoting erection of Hotel Beauregard, wires: "Hotel will be six stories; 190x300 feet; fireproof; Marvin & Davis, architects, 303 Fifth Ave., New York; O. B. Blackburn, New York, promoter with this Chamber." Reported cost of building, \$90,000; furnishings, \$100,000.

S. C., Charleston.—John J. O'Hagan is reported promoting organization of company to erect hotel, to be known as The Wade Hampton; steel frame; reinforced concrete; fireproof; cost \$1,000,000; building designed by National Architectural & Engineering Co., San Francisco, Cal.; T. J. Sullivan, Boston, Mass., constructing engineer and supervisor of construction; J. M. Nix & Co., affiliated with Fred A. Jones Building Co., Dallas, Tex., also connected with work.

S. C., Greenville.—Washington Street Hotel Co. increased capital stock from \$20,000 to \$100,000; is reported as to erect addition to Imperial Hotel.

Tex., Houston.—Sylvan Beach Park Co.

(G. D. Samuels and others) is reported as to erect hotel and summer theater. (See "Land Development.")

Tex., Palestine.—H. H. Franks, Gunter Hotel, San Antonio, Tex., and P. G. Storm, Adolphus Hotel, Dallas, Tex., are having plans prepared for hotel; cost \$100,000.

### MISCELLANEOUS

Ala., Bay Minette—Hall, etc.—Mayor Stapleton is reported as to erect store, office and hall building. (See "Bank and Office.")

Ky., Dover—Clubhouse.—Lyman Walker, Covington, Ky., is preparing plans for clubhouse.

Ky., Paducah—Clubhouse.—Paducah Golf & Country Club, E. Douglas Bagley, secretary, will expend \$10,000 to \$12,000 to erect clubhouse; mill construction; shingle roof; architect not selected. (Recently noted.)

Ky., Paducah—Sanatorium.—C. R. Kiener purchased mineral well on S. 5th St. and is organizing company to erect sanatorium, bathing pools, etc.; structure to be of iron and stone and contain swimming pool, Turkish baths, etc.

La., New Orleans—Fair.—Glen Fleming, 601 Hibernia Bank Bldg., secretary Southern States Fair Pan-American Exposition, states plans for exposition buildings embrace following structures: Coliseum, seating capacity 6000 to 10,000, with about 75,000 feet exhibit space; home manufacturers' building, 200x250 feet; music and art building, 60x100 feet; woman's building, 80x100 feet; machinery hall, 150x250 feet; forestry and mineral building, 60x100 feet; poultry building, 125x125 feet; boys and girls' club building, 80x125 feet; livestock pavilion, 75x125 feet; refreshment buildings, barns, etc.; plans not complete. (Previously noted.)

La., Shreveport—Sanatorium.—C. W. King, Shreveport, prepared plans for five-story addition to North Louisiana Sanatorium; cost \$75,000.

Md., Cockeyville—Barn, etc.—Walter P. Record will rebuild barn, cornhouse and henery; plans not made. (Recently reported burned.)

N. C., Rocky Mount—Hospital.—Carnel & Johnston, Richmond, Va., are preparing plans for hospital; 50x120 feet; 2½ stories; capacity for 74 beds; hot-water heat; electric lighting; dumb waiters; electric elevator; cost \$40,000; date of opening bids not set.

N. C., Wadesboro—Hospital.—Wadesboro Hospital trustees are having plans prepared by Sayre & Baldwin, Anderson, S. C., for hospital.

S. C., Clinton—Orphanage.—Thorndale Orphanage trustees will erect Thomas Jones Science Hall.

Tenn., Columbia—Undertaking.—W. S. Fleming and Mrs. S. G. Dunnington will erect several buildings, including undertaking establishment to be occupied by Smith & Cunningham; also suite of offices adjoining to be occupied by Fleming & Son and suite for Dry Cleaning Co.

Tenn., Knoxville—Library.—Trustees of Lawson-McGhee Library purchased Borches property and will erect library to cost \$50,000 to \$60,000.

Tenn., Knoxville—Exposition.—Post "C." Travelers' Protective Association, R. A. Harper, chairman of exposition building committee, will erect building at National Conservation Exposition.

Tenn., Memphis—Hospital.—Methodist Episcopal Church South, Rev. H. M. Ellis, field secretary, 208 Union Ave., will select architect shortly to prepare plans for hospital; fireproof construction; electric lighting; cost \$200,000; details not determined. (Recently noted.)

Tex., Bremond—Lumber Shed.—R. B. Spencer, Waco, Tex., will erect lumber shed, etc. (See "Bank and Office.")

Tex., Dallas—Skating Rink, etc.—Charles A. Mangold is reported as to rebuild skating rink, etc., at Lake Cliff Park, reported burned at loss of \$50,000.

Tex., El Paso—Sheds.—Hines Lumber & Coal Co. has plans by J. W. F. Smith, Fulton, Col., for 62x100-foot and 20½x120-foot lumber sheds and 16½x100-foot coal bins recently noted; mill construction; cost \$4000; bids opened April 1. (See "Machinery Wanted.")

Tex., Galveston—Infirmary.—Sisters of Charity will erect additional wing to St. Mary's Infirmary; four stories; cream-colored brick; 120-114 feet; cost \$75,000; plans by Sanguinette & Staats, Fort Worth, Tex.

Va., Alexandria—Clubhouse.—Alexandria Motor Boat Club, Inc., has plans by W. E. Spofford, 104 N. Nash St., Alexandria, for building; 32x50 feet; ordinary construction; cost \$2500; date of opening bids not set.

Va., Norfolk—Stables.—Anheuser-Busch Brewing Association, main office St. Louis, Mo., will erect stable at City Hall Ave. and Gousch st.; cost \$12,000.

Va., Richmond—Sanitarium.—Forest Hill Hotel Sanitarium Co. incorporated with John C. Robertson, president; Dr. R. S. Ingersoll, vice-president; A. M. Neff, secretary-treasurer; will erect hotel sanitarium; structure of tapestry brick and stone; three stories, basement and glass roof garden; swimming pool, 40x60 feet, of white marble; 20-foot marble colonnade around pool and 35 dressing-rooms, lounging-rooms, shower baths, etc.; will also construct fish lake and equip with pleasure boats, rustic bridge to span lake, tennis courts, walkways, etc.

W. Va., Parkersburg—Tabernacle.—Tabernacle Company incorporated with \$5000 capital stock by Charles C. Martin, Olvin V. Neal, George P. Chase and others; will erect building for public purposes, conduct printing establishment, etc.

### RAILWAY STATIONS, SHEDS, ETC.

Ala., Demopolis.—Southern Railway Co., B. Herman, chief engineer, 1300 Pennsylvania Ave., Washington, D. C., will erect freight depot; 40x153 feet; open platform 48x60 feet; brick construction; bids invited. (Recently noted.)

Ala., Faunsdale.—Southern Railway Co., B. Herman, chief engineer, 1300 Pennsylvania Ave., Washington, D. C., will erect combination freight-and-passenger depot; frame construction; tile roof; bids invited.

Ark., Batesville.—St. Louis, Iron Mountain & Southern Railway Co., J. R. Stephens, chief engineer, St. Louis, Mo., will not erect depot as recently reported.

Fla., St. Petersburg.—Tampa & Gulf Coast Railroad, owned by C. H. Lutz and associates, will, it is reported, erect passenger depot.

Ga., Lagrange.—Atlanta, Birmingham & Atlantic Railroad Co., L. L. Beall, chief engineer, Austell Bldg., Atlanta, Ga., will expend \$12,000 to erect depot; 30x116 feet; one story; brick veneer; stoves; electric lighting; tile roof; site to be graded and driveway to be paved; date of opening bids not set. (Recently noted.)

Ga., Macon.—Railroad Commission directed Central of Georgia Railroad Co., C. K. Lawrence, chief engineer, Savannah, Ga., to submit tentative plans within 30 days for passenger station at 4th, 5th and Plum Sts. (Recently noted to erect \$400,000 passenger station at foot of Cherry St.)

Ky., Fulton.—Illinois Central Railroad Co., A. S. Baldwin, chief engineer, Chicago, Ill., will not erect depot, as recently reported.

La., Eunice.—St. Louis & San Francisco Railroad Co., V. K. Hendricks, principal assistant engineer, Springfield, Mo., will erect freight depot.

Okla., Antlers.—St. Louis & San Francisco Railroad, V. K. Hendricks, principal assistant engineer, Springfield, Mo., will erect station.

Tex., Sweetwater.—Kansas City, Mexico & Orient Railway of Texas, R. P. Parker, chief engineer, San Angelo, Tex., is reported as to expend \$100,000 for improvements at Sweetwater, to include erection of freight and passenger depot; one story.

W. Va., Charleston.—Norfolk & Western Railway, C. S. Churchill, chief engineer, Roanoke, Va., will erect \$25,000 station.

### SCHOOLS

Ala., Demopolis.—City opens bids through Architect Frank Lockwood of Montgomery, Ala., about April 21 to erect school building; ordinary construction; steam heat; composition roof; cost \$30,000. (Recently noted.)

Ala., Mobile.—City Commissioners contemplate calling election to vote on \$150,000 bond issue to erect school.

Ala., Selma.—School Board rejected all bids to erect school and will call for new bids to bring cost within \$35,000; plans by William T. Warren, Birmingham, Ala. (Recently noted.)

Fla., Auburndale.—City will erect brick school building. Address The Mayor.

Fla., Arcadia.—City contemplates election on bond issue to erect high school. Address The Mayor.

Fla., Orlando.—City will erect grammar school; 11 classrooms; cost \$25,000. Address The Mayor.

Fla., Tampa.—Trustees of Buffalo Ave. School have plans by Willis R. Biggers, Tampa, for school; two stories; brick; 90x65 feet; eight classrooms.

Ga., Athens.—City voted \$100,000 bond issue for school improvements; J. W. Barnett, City Engineer. (Recently noted.)

Ga., Lyrly.—City will vote April 5 on \$10,000 bond issue to erect school. Address The Mayor.

Ga., College Park.—Fulton County Board of Education, Atlanta, Ga., opens bids April 10 to erect high-school building; 77x95 feet; ordinary construction; brick veneer; artificial stone trimmings; steam-blast system of heating; Barrett specification roofing; cost \$8500; plans by Carlton & Wolsoncroft, La Grange, Ga. (Recently noted.)

Ga., Summerville.—Summerville school district voted \$20,000 bond issue to erect school. Address District School Trustees.

Ga., Waycross.—School Board opens bids about April 25 to erect school; common brick; steam heat; electric lighting; hardwood floors; Carey's roofing; plans by W. B. Camp, Jacksonville, Fla. (Recently noted to cost \$5000.)

La., Alexandria.—Sisters of Divine Providence, San Antonio, Tex., will erect boarding school for girls; three stories; brick; cost \$80,000.

La., Kinder.—School Board of Allen Parish, A. L. Franklin, president, has plans by I. C. Carter for brick school.

La., New Orleans.—Sacred Heart Academy will erect one-story brick addition; cost \$30,550.

La., New Orleans.—Department of Public Finance opened bids to erect Third Ward School on White, Broad, Baudin and Bank Sts.; John Minot, New Orleans, is lowest bidder at \$46,750. (Recently noted.)

Md., Govans.—Baltimore County School Board, Towson, Md., will erect four-room-and-basement addition to Willow Ave. School and install sanitary equipment. (See Md., Towson.)

Md., Halethorpe.—Baltimore County School Board, Towson, Md., will erect two-room-and-basement brick school. (See Md., Towson.)

Md., New Windsor.—Blue Ridge College Trustees appointed John J. John, Walter Englar and A. P. Snader, latter two near Union Bridge, Md., as building committee to employ architect for building; brick; three stories.

Md., Pikesville.—Baltimore County School Board, Towson, Md., will erect school; eight rooms and basement. (See Md., Towson.)

Md., Reisterstown.—Baltimore County School Board, Towson, Md., will erect eight-room addition and basement to Franklin High School to provide accommodations for 700 pupils. (See Md., Towson.)

Md., Towson.—Baltimore County School Board will expend about \$90,000 to erect school buildings and additions to present structures, including four-room frame school for negroes at Towson, two-room-and-basement brick building at Halethorpe, four-room addition and basement and installation of sanitary equipment at Govans, eight-room-and-basement addition to Franklin High School at Reisterstown, and eight-room-and-basement school at Pikesville.

Md., Towson.—State Normal School Commission accepted plans by Parker, Thomas & Rice, Union Trust Bldg., Baltimore, Md., for school buildings; red brick; front of administration building probably of white marble; group comprises administration building 55x200 feet, with wings 46x144 feet and 35x90 feet; dormitories 44x200 feet, 44x86 feet and 28x100 feet; kitchen and power-house; two dormitories, first of group constructed, will be under one roof, separated by firewall and fireproof staircase; has \$60,000 appropriation; J. Charles Linthicum, chairman of committee, 219 St. Paul St., Baltimore, Md. (Previously noted.)

Miss., Meridian.—City will issue \$25,000 of bonds for school improvements. Address The Mayor.

Mo., Oak Grove.—Board of Education has plans by J. H. Felt & Co., Kansas City, Mo., for high and graded school; bids opened March 26.

N. C., Oxford.—City voted \$20,000 bond issue to erect school; D. G. Brummitt, Mayor. (Recently noted.)

N. C., Raleigh.—Raleigh School Board plans to erect \$100,000 school in Glenwood.

N. C., South Mills.—City voted \$10,000 bond issue to erect high school. Address The Mayor.

N. C., Spencer.—Board of Aldermen ordered election for May 6 to vote on \$60,000 bond issue to include \$10,000 to erect and equip addition to graded school.

N. C., Vanceboro.—Trustees of Craven County Farm Life School, S. M. Brinson,

secretary, Newbern, N. C., will expend \$35,000 to erect two brick buildings; ordinary construction; metal or slate roof; plans by F. K. Thomson, Raleigh, N. C. (Recently noted at Newbern, N. C., as to receive bids until April 19.)

N. C., Wilmington.—New Hanover county will vote May 27 on \$175,000 bond issue for school improvements. Address County Board of Education. (Recently noted.)

N. C., Winston-Salem.—School Board, it is reported, will erect school at Fairview; eight rooms; brick.

S. C., Aiken.—Trustees of Aiken College, D. S. Henderson, president, plans to erect \$30,000 building.

S. C., Clinton.—Presbyterian College, Dr. Douglas, president, will erect science hall to cost \$15,000.

S. C., Florence.—City has plans by W. J. Wilkins for school to replace burned structure; cost \$10,000.

S. C., Pelham, R. Station, Greer.—Pelham School District will erect school building; MacMillan C. King, Dr. R. F. McKowna and others, trustees.

S. C., Spartanburg.—Textile Institute (Rev. D. E. Camak, T. J. Carter and others, interested) will erect \$25,000 building, etc.

Tenn., McMoresville.—Collegiate Institute Trustees, it is reported, contemplate erection of \$10,000 building.

Tex., Charlotte.—Charlotte Independent School District will vote in April on \$20,000 bond issue to erect school. Address District School Trustees.

Tex., Decatur.—Decatur Independent School District will issue \$20,000 of bonds to erect school. Address District School Trustees.

Tex., Denison.—City, Y. D. Yocum, secretary, opened bids to erect high school according to plans by A. O. Watson, Austin, Tex.; Rhinehart & Donovan are lowest bidders at \$72,940; three stories; steel and reinforced concrete; 179-foot 2 inches by 154 feet 4 inches; auditorium to seat 850.

Tex., Dickinson.—City voted \$15,000 bond issue to erect brick school. Address The Mayor.

Tex., Edna.—Edna Independent School District voted \$8000 bond issue to erect school. Address District School Trustees.

Tex., Fort Worth.—City will vote April 8 on \$175,000 bond issue to erect schools in Tenth, Eighth and Seventh wards, and additions to North Side school. Address School Board. (Recently noted.)

Tex., Galveston.—Common School District No. 7 voted \$15,000 bond issue to erect school at Dickinson. Address School Trustees.

Tex., Hartley.—School District No. 1 voted bond issue to erect school; brick; cost \$15,000.

Tex., Kopperl.—City voted \$7500 bond issue to erect school. Address The Mayor.

Tex., Smiley.—W. F. Remschel, president of School Board, will receive bids until April 10 to erect two-story brick school; plans and specifications at office of Mr. Remschel at Smiley and Henry T. Phelps, architect, Gunter Bldg., San Antonio, Tex., or may be had on deposit of \$25.

Tex., Sourlake.—Sourlake School District voted \$5000 bond issue to erect school. Address District School Trustees.

Va., Norfolk.—Seventh Ward Local Board requested City Council to issue \$30,000 of bonds to erect 10-room annex to Monroe school or to purchase site and erect 10-room school.

Va., Richmond.—Bids received until April 3 at office of C. P. Walford, Clerk and Supervisor, 805 E. Marshall St., to erect school at 26th and Leigh Sts.; 24 rooms and assembly hall; semi-fireproof; tin and slag roof; cost \$80,000; separate bids for heating and ventilating; further information, plans and specifications from Carnel & Johnston, architects, National Bank of Virginia Bldg., 9th and Main Sts., Richmond. (Recently noted.)

Va., Salem.—Roanoke College will expend \$20,000 to erect dormitory; 35x100 feet; ordinary construction; steam heat; slate roof; plans by F. A. Rommel, 1524 Chestnut St., Philadelphia, Pa. (Recently noted to open bids March 29.)

### STORES

Ala., Attalla.—Noolin-Copeland Hardware Co. will erect business building; two stories; brick; 50x120 feet.

Ala., Bay Minette.—Mayor Stapleton, it is reported, will erect store, office and hall building. (See "Bank and Office.")

Ala., Birmingham.—Louis Schillinger will expend \$9000 to repair building at 2d Al. and 19th St.



Ala., Gadsden.—W. L. Sampey will expend \$6000 to erect store building; 25x125 feet; semi-fireproof construction; tar and gravel roof; plans and construction by owner. (Recently noted.)

Ala., Mobile.—R. L. Braswell will erect two-story addition to and remodel store at Dauphin and Claiborne Sts.; cost \$3000.

Ala., Whistler.—Andrew B. Baumbauer will erect three-story brick building; cost \$5000.

Fla., Headwater (not a postoffice).—Modern Land Co., Suite 524 Midland Bldg., Kansas City, Mo., will erect store building to contain first postoffice and telephone exchange for new townsite. (See "Land Developments.")

Fla., Jacksonville.—Atlantic & Gulf Investment Co. has plans by Holmboe & Lafferty, Clarksburg, W. Va., for building on Ashley St.; three stories; brick; 12 stores on ground floor; apartments above.

Fla., Jacksonville.—L. C. Denmark contemplates erection of store and apartment building. (See "Apartment-houses.")

Fla., Jacksonville.—S. S. Goffin will erect building for store and apartments. (See "Apartment-houses.")

Fla., Ocala.—Merchants' Block, R. L. Martin, agent, accepted plans to remodel building. (See "Bank and Office.")

Fla., Tarpon Springs.—A. P. Beckett will erect one-story brick business building on Safford Ave.; 68x40 feet; four stores.

Fla., Miami.—D. G. Farr, proprietor of Farr's Novelty Store, will erect store and apartment building; 25x131½ feet; three stories; lower floor for store; upper floors for apartments.

Fla., Tarpon Springs.—Union Grocery Co. will erect business block.

Ga., Atlanta.—Louisville & Nashville Railway Co., W. H. Courtenay, chief engineer, Louisville, Ky., it is reported, is considering bids to erect proposed building for produce merchants; concrete construction.

Ky., Paris.—S. H. Kress & Co., 336 Broadway, New York, will erect three-story building.

Ky., Pleasureville.—Victor Falls will erect brick and stone building.

Ky., Whitesburg.—Whitesburg Wholesale Grocery Co., J. M. Day, manager, will erect building; 50x56 feet; contract let in 15 days.

La., Crowley.—Egan Hotel Co. will erect store and hotel building. (See "Hotels.")

La., Lake Charles.—Kelley-Weber Wholesale Grocery Co. will erect business building.

La., Logansport.—C. R. and J. W. Caraway will erect two brick buildings; one to be occupied by Logansport Grocery Co. as store and other by C. H. Aycock for moving-picture theater.

Miss., Meridian.—S. H. Floyd has plans for store, theater and office building. (See "Theaters.")

Miss., Laurel.—Laurel Camp No. 173, Woodmen of the World, M. Schaubert, clerk, will erect store and lodge building. (See "Association and Fraternal Buildings.")

Miss., Tutwiler.—Bids received by Joseph Engler, Jr., until April 3 to erect brick building; plans and specifications at office of Mr. Engler at Tutwiler, or may be had on application to M. M. Alsop, architect, Houston, Miss.

Mo., Springfield.—Reed & Heckenlively, 126 Public Square, Springfield, prepared plans for brick and concrete building for Mr. Headley; cost \$30,000 to \$40,000.

Mo., St. Louis.—Hoepffner Investment Co. will erect store and tenement-house. (See "Apartment-houses.")

N. C., Charlotte.—Piedmont Traction Co. will, it is reported, erect 12 combination store and warehouse buildings on W. 1st St.; three stories and basement; brick; steel frame; probably equipped with sprinkler systems; two to be occupied by Kuester-Lowe Company; will have plans prepared for 24 or 25 structures, but only 12 to be erected at present. (Kuester-Lowe structure previously noted.)

N. C., Charlotte.—Mercantile Development Co. is having plans prepared by Hook & Rogers, Charlotte, for 11 store buildings; four stories; steel and white pressed brick.

Okla., Tulsa.—R. T. Daniel will erect three buildings, including one two-story building containing five stores on ground floor and 112 offices above; 100x140 feet. (Recently noted.)

S. C., Anderson.—H. C. Townsend and M. Evans will expend \$12,000 to erect store building; 51x90 feet; heating and lighting not decided; tin roof; day labor. (Recently noted.)

S. C., Greenville.—Conyers & Gover will

repair building on W. Washington St. recently reported damaged by fire; cost \$3500.

S. C., Hartsville.—J. W. Davis is reported as to erect brick store building to replace structure reported burned.

Tenn., Chattanooga.—Harry Read and G. H. Garmany purchased site at Carter and W. 10th Sts., 176x250 feet, and will erect brick buildings.

Tenn., Chattanooga.—Realty Trust Co., J. S. Rodrigues, president, it is reported, has plans for store and apartment building. (See "Apartment-houses.")

Tenn., Nashville.—A. J. Lucas will erect brick building at 1503 Buchanan St.; cost \$5000.

Tenn., Nashville.—J. B. West will erect brick-veneer building on Linden Ave.; cost \$3500.

Tenn., Nashville.—Neal Vaughn will erect brick building at 1207 Seventeenth Ave. South to cost \$4000.

Tenn., Bloomington.—J. W. Brown will erect two-story business building.

Tenn., Dallas.—Dallas Investment Co. and Flippen-Prather Realty Co. are reported as to erect arcade building between Ervay and Akard Sts.; one story; brick; 50x200 feet; 16 booths on either side and 10-foot tile passageway through center; white enamel press brick; concrete floors; skylights over each booth; electric fan, etc.

Tenn., Dallas.—S. G. Davis Hat Co. will erect building at Jackson and Austin Sts.; five stories and basement; 75x100 feet; cost \$70,000 to \$80,000.

Tenn., El Paso.—S. E. Patton will erect additional story to building on Myrtle Ave.; cost \$3450.

Tenn., Houston.—Edwin and Dr. George W. Larendon contemplate erection of store and apartment building; three stories; brick; cost \$25,000.

Tenn., Houston.—Finnigan estate, Lewis Anderson, executor, is reported as to erect building at Main St. and Rusk Ave.

Tenn., Palestine.—Messrs. Greenwood have plans by James A. Bothwell, Tyler, Tex., for business building to be occupied by Swan Furniture Co. (Recently noted.)

Tenn., Port Arthur.—Buford Twyman, Versailles, Ky., will erect two brick business blocks and six-room residence.

Tenn., Temple.—F. A. Thomson, Gatesville, Tex., will accept plans for about two weeks for store building; 90x100 feet; two stories; electric freight elevator; other details not determined. (Recently noted.)

Tenn., Timpson.—W. C. Ward will erect brick business building.

Tenn., Waco.—Archenhold Company will erect building at 415 Austin St.; two stories and basement; cost \$23,000.

Va., Laurel (not a postoffice).—Cinchfield Coal Corporation, general office, Dante, Va., it is reported, will erect commissary and office building; brick.

Va., Richmond.—Robert A. Gill will erect building to contain stores and dwellings. (See "Dwellings.")

Va., Richmond.—Guy N. Belcher, Main St. Bank Bldg., will expend \$10,000 to erect proposed store and apartment building; two stories; 24x40 feet and 24x50 feet; ordinary construction; brick; three-wire system of lighting; slag roof; plans by Herbert L. Cain, 103 Main St. Bank Bldg., Richmond; construction by owner. (See "Machinery Wanted.")

Va., Smithfield.—W. D. Foulk has plans by Herbert L. Cain, Main St. Bank Bldg., Richmond, for store and office building; 50x50 feet; two stories and basement; ordinary construction; gas lighting; slag roof; cost \$4500; plans ready in about a week. (See "Machinery Wanted.")

## THEATERS

Ala., Birmingham.—Orpheum Theater, L. Semon, local manager, will repair theater reported damaged by fire at loss of \$5000.

La., Logansport.—C. R. and J. W. Caraway will erect store and moving-picture theater. (See "Stores.")

Miss., Meridian.—S. H. Floyd will expend \$25,000 to \$30,000 to erect theater, store and office building, for which contract was recently noted awarded; 75x142 feet; ordinary construction; steam heat; composition roof; plans by P. J. Krouse, Meridian; day labor. (See "Machinery Wanted.")

Tenn., Dallas.—G. K. Jorgensen, Galveston, Tex., opens bids April 25 and will let contract about May 1 to erect moving-picture theater; 50x100 feet; mill construction; hot-air heat; tar and gravel roof; cost \$45,000; plans being prepared by I. A. Walker, 901

Southwest Life Bldg., Dallas; will install pipe organ. (Recently noted.)

Tenn., Houston.—Sylvan Bench Park Co. (G. D. Samuels and others) is reported as to erect summer theater, etc. (See "Land Development.")

Tenn., Orange.—Thomas Tatum will erect moving-picture theater; frame; seating capacity about 500.

Va., West Point.—J. W. Owens is having plans prepared by Shepherd & Peale, Inc., and Charles K. Bryant, Richmond, for theater.

## WAREHOUSES

Fla., Leesburg.—J. H. Williams & Son will erect warehouse.

Fla., Tampa.—O'Berry & Hall will erect brick warehouse addition; cost \$3825.

Ga., Atlanta.—Nunnally & McRea have plans by Walker & Chase, Candier Bldg., Atlanta, for warehouse and office building to be occupied by Marcus Loeb & Co. (See "Bank and Office.")

Ky., Paris.—Bourbon Tobacco Warehouse Co. will increase capital stock from \$35,000 to \$50,000 and erect addition to warehouse.

La., Lake Charles.—Hemmenway Furniture Co. will erect warehouse; cost \$8000.

N. C., Charlotte.—Piedmont Traction Co. will, it is reported, erect 12 combination

store and warehouse buildings. (See "Stores.")

N. C., Durham.—Umstead-Carrington Co. will erect addition to Planters' Warehouse; 46x116 feet; 26,000 square feet floor space; will also erect sheds and several stalls.

N. C., Newton.—Farmers' Union will erect warehouse.

Okla., Madill.—Marsh Milling & Grain Co. contemplates rebuilding warehouse recently reported burned.

Tenn., Dallas.—Edwards & Webster will erect warehouse; three stories and basement; brick; 83x55 feet; cost \$30,000.

Tenn., Dallas.—Edw. C. Connor, 5123 Crutcher St., and D. B. Mason, 431 Junius St., are reported as planning to erect warehouse at Main and Murrat Sts.; five stories; reinforced concrete; fireproof; J. R. Babcock, secretary of Chamber of Commerce, can probably give information.

Tenn., Dallas.—Lummus Cotton Gin Co., Columbus, Ga., has plans by T. W. Smith & Co., Columbus, Ga., for office and warehouse; 75x85 feet; mill construction; composition roof; cost \$9000; day labor. (Recently noted at Houston, Tex.)

Tenn., Paris.—Company composed of T. A. Johnson, Paris; Eugene Blocker, Honey Grove, Tex., and others, plans to erect warehouse, etc. (See "Cotton Compresses and Gins.")

## BUILDING CONTRACTS AWARDED

### APARTMENT-HOUSES

Fla., Jacksonville.—Lucius B. Wooten awarded contract to erect apartment and store building. (See "Stores.")

Ga., Atlanta.—M. R. McClatchey awarded contract to erect three apartment-houses. (See "Dwellings," Buildings Proposed.)

La., New Orleans.—Jules Dreyfous awarded contract to Julius Kock, New Orleans, to erect Washington Apartments; four stories; reinforced concrete and brick; hardwood and tile floors; cost about \$50,000; ornamental-iron and marble work will be let under separate contract; plans by Francis MacDonald, New Orleans. (Previously noted.)

Miss., Columbus.—Mrs. H. B. Woolfolk awarded contract to W. C. Lunsford to erect apartment-house; cost \$10,000.

Mo., St. Louis.—Charles Gietner awarded contract to erect tenement and store building recently noted. (See "Stores.")

Tenn., Memphis.—John Reid awarded contract to Thomas Yarwood to erect two-story brick flats at 1151 Poplar St.; cost \$9000.

Tenn., Houston.—Henry S. Fox, Jr., awarded contract to Aetna Engineering & Construction Co. to erect three-story apartment and store building; cost \$60,000; brick and concrete; fireproof; telephone systems; elevator; hot and cold water; plans by Green & Finger, Houston; is also having plans prepared by same architects for three-story apartment-house at Travis and Dallas Ave. to cost \$45,000. (Recently noted.)

Va., Norfolk.—John L. Roper awarded contract to East & Hobbs, Norfolk, to erect apartment-house; three stories; brick; cost \$10,000.

### ASSOCIATION AND FRATERNAL

Va., Richmond.—Young Women's Christian Association awarded contract to H. L. Matthews, 9 S. 6th St., Richmond, to erect administration building; 65x120 feet; semi-fireproof construction; tin roof; cost \$84,297; cost of heating plant, \$3200; plans by Noland & Baskerville, Travelers' Bldg., Richmond. (Recently noted.)

Va., Richmond.—Young Women's Christian Association awarded contract to H. L. Matthews, 9 S. 6th St., Richmond, to erect building; three stories; brick, stone, concrete and wood; cost \$84,000; plans by Noland & Baskerville, Richmond. (Recently noted.)

### BANK AND OFFICE

Ky., Lexington.—Fayette National Bank awarded contract at about \$25,000 to F. A. Clegg & Co., Louisville, Ky., for heating and ventilating equipment for 15-story bank building, for which George A. Fuller Company, Munsey Bldg., Washington, D. C., has general contract; plans by McKim, Mead & White, New York, call for structure 60x80 feet; fireproof construction; total cost about \$300,000. (Previously noted.)

La., Oberlin.—Calcasieu Trust and Savings Bank awarded contract to De Latta & La Grange, Lake Charles, La., to erect brick bank building.

Miss., Aberdeen.—Dr. W. M. Paine awarded

contract to erect store and office building. (See "Stores.")

Miss., Coldwater.—M. H. Daily will expend \$5000 to \$6000 to erect building to contain offices, store and lodgeroom; contract awarded. (See "Stores.")

Okla., Chickasha.—Dr. Frye will expend \$28,000 to erect office and store building. (See "Stores.")

S. C., Columbia.—City Jail, City awarded contract to Van Horn Iron Works, Cincinnati, O., for 24 cells for city jail.

Tenn., Memphis.—Bank of Commerce & Trust Co. (not Commercial Trust and Savings Bank as recently reported) awarded contract to Consolidated Engineering Co., 61 Gunther Bldg., Baltimore, Md., to erect bank and office building; 37.6x148.6 feet; 15 stories and basement; steel and brick; steam heating; composition roof; cost about \$400,000; plans by Hanker & Cairns, Memphis. (Reported in July, 1912, as awarding contract to Noel Construction Co., Baltimore, Md.)

Tenn., Caldwell.—Bowers-Krenek Land Co. awarded contract to erect two-story brick office building.

Tenn., Kennedy.—First State Bank & Trust Co. will expend \$11,000 to erect bank building; 25x88 feet; fireproof construction; pressed and white enameled brick; artificial stone trimmings; tar and gravel roof; solid plaster and metal partitions; doors and windows of hollow metal construction; plans by J. Henry Yentzen, Yonkum, Tex.; contract recently noted awarded to Neuman Bros., Kennedy. (See "Machinery Wanted.")

Tenn., Mt. Pleasant.—First National Bank awarded contract to C. W. Vaughn, Mt. Pleasant, to remodel bank building; 30x120 feet; ordinary construction; cost \$10,000. (Recently noted.)

Tenn., Palestine.—A. G. and T. B. Greenwood awarded contract to erect office building; three stories; brick.

Tenn., Plainview.—Dr. J. W. Grant, Plainview, and Herman Blueher, Albuquerque, N. M., awarded contract to erect store and office building. (See "Stores.")

W. Va., Clarksburg.—Owens Eastern Bottle Co., 128 Broadway, New York, awarded contract to Richards Construction Co., Clarksburg, to erect office building; 33x44 feet; two stories; fireproof construction; steam heat; electric lighting; Barrett specification roofing; cost \$8000; plans by Devore & McGormley Co., Toledo, O. (Recently noted.)

### CHURCHES

Ga., Thomasville.—Jewish congregation will erect synagogue; 40x50 feet; pressed brick; electric lighting; galvanized metal shingle roof; cost \$5000; material purchased; awarded contract to Henry Atkinson.

Mo., Kansas City.—Third Church of Christ, Scientist, awarded contract to D. M. Wall, Kansas City, to erect basement of church building at 40th and Walnut Sts.; Carthage stone and tapestry brick; auditorium to seat 800 and Sunday-school to seat 400; indirect lighting; cost \$75,000; plans by Keen & Simpson, Kansas City.

N. C., Wilmington.—Southside Baptist

Church, Rev. W. G. Hall, pastor, awarded contract to John Thomas, Wilmington, to erect church building; seating capacity 750; cost \$20,000.

Tex., Trinity.—Presbyterian Church will erect church building; contract awarded. Address The Pastor, Presbyterian Church.

Tex., Wichita Falls.—First Christian Church, Rev. F. F. Walters, pastor, will expend \$31,000 to erect building; 78x123 feet; fireproof construction; hot-air heat; electric lighting; Keasley & Mattison asbestos red slate roof; plans by Van Slyke & Woodruff, Oklahoma City, Okla.; contract recently noted awarded to Alexander Watson Construction Co., Dallas, Tex.

Va., Farmville.—Baptist Church awarded contract to H. D. Moring to erect addition and alteration to building; 50x140 feet; brick; metal roof; cost \$20,000; cost of heating and lighting, \$950.

Va., Norfolk.—Park Place Baptist Church awarded contract at \$30,000 to S. B. Williams & Son, Norfolk, to erect church building; will roof in and leave Sunday-school room unfinished; plans by George W. Kramer, 1 Madison Ave., New York. (Recently noted.)

### CITY AND COUNTY

Va., Christiansburg.—Jail.—Montgomery County Supervisors awarded contract to Morris C. Miller to erect jail; jail work to be furnished by Van Dorn Iron Works Co., Cleveland, O.; plans by G. R. Ragan, 613 Watt Bldg., Roanoke, Va. (Contract recently noted awarded to R. K. Stewart of Roanoke.)

### COURTHOUSES

Mo., Chillicothe.—Livingston county awarded contract to L. W. Duncan, Columbia, Mo., to erect courthouse; 80x100 feet; fireproof construction; steam heat, tile roof; cost \$97,980; plans by Lasse & Roberts, Columbia. (Recently noted.)

### DWELLINGS

Ala., Birmingham.—Robert D. Mills awarded contract to W. S. Cooper to erect dwelling at 1512 39th St.; two stories; brick veneer; cost \$4200.

Ala., Birmingham.—Boyles Land Co. awarded contract to J. L. Tidwell to erect two bungalows at Boyles; plans by Edgar L. Love, Birmingham.

Ala., Gadsden.—Charles L. Marsh completed plans and specifications and let contract to erect two bungalows; cost \$2800 each.

Fla., Bradentown.—D. M. Leonard awarded contract to Thomas & Chapman, Bradentown, to erect proposed dwelling; 32x36 feet; electric lighting; cost \$3000.

Fla., Miami.—Mrs. Carrie Barton, it is reported, awarded contract to erect store and dwelling.

Ga., Augusta.—Mrs. F. P. Cotter will erect two-story frame dwelling on 11th St.; cost \$3850; awarded contract to Industrial Lumber Co., Augusta.

Ga., Cartersville.—American Textile Co. awarded contract to M. O. Terrell to erect 10 dwellings on Cassville Rd.

Ga., La Grange.—J. H. Wright awarded contract to W. T. Wilson, La Grange, to erect three dwellings; five rooms and hall; ordinary construction; open grates; electric lighting; shingle roof; total cost, \$3900. (Recently noted.)

Ga., Lagrange.—Dixie Cotton Mills Co. awarded contract to Gallivan Company, Greenville, S. C., to erect 20 cottages. (Previously noted to erect 40 tenement-houses.)

Ky., Pineville.—James I. Patterson awarded contract to Fred Underwood, Pineville, to erect residence; two stories; Milwaukee brick.

Md., Baltimore.—Lemuel T. Appold awarded contract to Gladfelter & Chambers, 2074 Woodberry Ave., Baltimore, to erect residence on Charles-Street Ave.; three stories; ornamental brick; hardwood interior; 55x90 feet; plans by Elliott & Emmart, Union Trust Bldg., Baltimore.

Md., Baltimore.—J. Bibb Mills, American Bldg., awarded contract to Henry Smith, Hamilton, Md., to erect residence on Duvall Ave., near Garrison Ave.; two and a half stories; frame; 28x36 feet; cost \$4350; plans by Owens & Sisco, Continental Bldg., Baltimore. (Previously noted.)

Md., Baltimore.—Dr. A. C. Powell awarded contract to Gladfelter & Chambers, 2074 Woodberry Ave., Baltimore, to erect residence on Stony Run Ave. near 39th St.; three stories; slate roof; cost \$8500; plans by Elliott & Emmart, 1102 Union Trust Bldg., Baltimore.

N. C., Carthage.—E. C. Fry has plans by and awarded contract to C. C. McLean, Carthage, to erect dwelling. (Recently noted.)

N. C., Salisbury.—R. L. Mahaley awarded contract to C. R. Probst to erect double residence; 14 rooms; will also erect another residence.

N. C., Salisbury.—Miss Sallie Chunn awarded contract to A. L. Lazenby to erect residence.

N. C., Salisbury.—C. M. Brown awarded contract to erect residence.

S. C., Greenwood.—G. W. Rush awarded contract to Mouldin & Chapman, Greenwood, to erect proposed dwelling; 37x32 feet; brick veneer; steam heat; electric lighting; wood roof; cost \$6000; plans by J. H. Casey and S. M. Vance, associated architects, Greenwood.

Tenn., Memphis.—Mrs. W. Stoltz awarded contract to F. E. Meacham to erect eight-room residence at 1738 Forest Ave.; cost \$5000.

Tenn., Memphis.—Polk & Boyle awarded contract to J. H. Hughes, Memphis, to erect residence at 398 Avalon Pl.; two stories; seven rooms; brick and stucco; cost \$3000.

Tenn., Memphis.—Standard Improvement Co. awarded contract to W. H. Burnell to erect three frame six-room dwellings on Claybrook and Malvern Aves.; cost \$9000.

Tenn., Memphis.—S. R. Martin awarded contract to W. T. Hudson to erect seven-room residence at 1540 Forest Ave.; cost \$3900.

Tenn., Memphis.—Mrs. Holmes Cummins awarded contract to R. F. Greson to erect two five-room frame cottages on Alston Ave.; cost \$5000.

Tex., Bay City.—J. Sutherland awarded contract to O. E. Hatchett to erect residence; 40x52 feet; mill construction; electric wiring; dipped cypress shingle roofing; cost \$5000; plans by J. E. Large. (Recently noted.)

Tex., Bay City.—A. E. Stinnetts awarded contract to O. E. Hatchett, Bay City, to erect proposed dwelling; cost \$3000.

Tex., Trinity.—Walter Scott awarded contract to erect four residences.

Va., Fredericksburg.—Mrs. F. L. W. Green awarded contract to E. G. Hefflin to erect 10-room residence; hot-water heat; electric wiring.

Va., Norfolk.—Dr. C. W. Doughtie awarded contract to C. W. Beard to erect two frame residences on 27th St.; cost \$4000.

Va., Norfolk.—Willis Company awarded contract to C. W. Beard, Norfolk, to erect three frame residences on Killam Ave.; cost \$3600.

Va., Richmond.—P. A. Fore will erect dwelling at 1209 W. Franklin St.; three stories; brick; cost \$9500; 13 rooms; ordinary or mill construction; hot-water heat; gas and electric lighting; tin roof; plans and construction by W. M. Knowles, 1009 Hull St., Richmond.

Va., Richmond.—O. B. White, 1103 Main St., will expend \$10,000 to erect two residences; 42x54 feet each; mill construction; heating contract not let; tin and slate roof; plans by P. J. White, 1103 Main St., Richmond; construction by owner. (Contract recently noted, under "Apartments," awarded to P. J. White & Son.)

### MISCELLANEOUS

Fla., Milton.—Auditorium, etc.—S. J. Harvey awarded contract to erect building for postoffice, auditorium, etc. (See "Stores.")

La., Lake Charles.—Barn.—Lakes Charles City Delivery Co. awarded contract to P. Oliver & Sons to erect brick barn; cost \$7000.

N. C., Hendersonville.—Hospital.—Hospital Board, Dr. Dixon, chairman, awarded general contract to Joseph McCrary, Hendersonville, to erect hospital; veneered brick; steam heat; electric lighting; metal shingle roof; plans by Sayre & Baldwin, Anderson, S. C.; contracts recently noted awarded to J. V. Helsel for gutter, roofing and ventilating, and to J. W. McIntyre of Hendersonville for plumbing fixtures.

Tex., Marshall.—Clubhouse.—Dallas-Caddo Club awarded contract to erect clubhouse.

Va., Roanoke.—Hospital.—Jefferson Hospital, conducted by Dr. H. H. Trout, awarded contract to C. W. Wade to erect addition to hospital; 50x50 feet; four stories and basement; cost \$25,000; plans by Miller & Mahood, Roanoke.

Va., Alexandria.—Armory.—Building committee of Company G, First Regiment Virginia Volunteers, awarded contract to J. W. Devers, Alexandria, to remodel armory; 65x100 feet; two stories; will provide bowling alleys, gymnasium, officers' and company's

clubrooms, shower baths, storerooms, etc.; steam heat; electric lighting; Taylor's arrow brand tin roofing; cost \$16,000; plans by W. R. Hamilton, R. F. D. No. 2, Alexandria. (Previously noted.)

### RAILWAY STATIONS, SHEDS, ETC.

La., New Orleans.—Trans-Mississippi Terminal Co., T. J. Freeman, president, has plans for terminal station for Texas & Pacific Railroad; buff Bedford limestone; interior finished in gray Tennessee marble; two stories; dome in center of waiting-room 37 feet high; concourse 25x176 feet in rear of waiting-room leading to train sheds; covered promenade 14 feet wide on Thalia St. side leading to main waiting-room from sidewalk; train sheds 280 feet long; steel construction; concrete walks between tracks; entire structure 176x82 feet; main waiting-room 78x105 feet; Tennessee gray marble floors; marble wainscoting; one-story wing in rear of concourse 270 feet long; two stairways leading to second floor; plans by Favrot & Livaudais, New Orleans. (Previously noted to have awarded contract for preliminary work to J. W. Thompson & Co., St. Louis, Mo.)

Va., Long Island.—Virginian Railway, H. Fernstrom, chief engineer, Norfolk, Va., awarded contract to W. B. English, Altavista, Va., to erect stations at Long Island and Smedley, Va., and other points.

Va., Smedley.—Virginian Railway, H. Fernstrom, chief engineer, Norfolk, Va., awarded contract to erect station. (See Va., Long Island.)

### SCHOOLS

Fla., Jacksonville.—Florida Military Academy, George W. Hulvey, superintendent, awarded contract to W. T. Hadlow Company, Jacksonville, to erect main building; brick and stone; 188x40 feet; three stories; ornamental towers; cost \$30,000; will also expend several thousand dollars to beautify grounds; plans by Talley & Summer. (Recently noted.)

Tenn., Knoxville.—Knox County Board of Education awarded contract to J. A. Cox to erect Gibbs School at Harbison's Cross Roads. (Contract recently noted awarded to R. M. Callaway & Co., but this contract rescinded.)

Tex., Gonzales.—City, W. L. Gardien, Mayor, awarded contract at \$29,717 to Tadlock Bros., Seguin, Tex., to erect school; two stories and basement; plans by Henry T. Phelps, Gunter Bldg., San Antonio, Tex. (Recently noted.)

Tex., Justin.—Justin Independent School District awarded contract to Ed McDowell to erect school to cost \$12,000; three stories; hot-air heat; two fire escapes; structure 64x67 feet. (Recently noted.)

Va., Elm Grove.—Trustees of Stone Church awarded contract at \$22,385 to Bushon & Lehman to erect church building; plans by C. W. Bates, Wheeling, W. Va. (Recently noted.)

### STORES

Ala., Gadsden.—S. H. Kress & Co., 398 Broadway, New York, awarded contract at about \$20,000 to W. H. Mayben and J. H. Fruentle, Gadsden, to erect store building previously noted; two stories; brick, stone and steel; 50x125 feet; basement 30x35 feet; awarded contract for heating system to cost several hundred dollars to Standard Plumbing & Heating Co. (See "Machinery Wanted.")

Ala., Oneonta.—Oneonta Hardware Co. awarded contract to Mr. Cox to erect business building; two stories; brick.

Fla., Jacksonville.—Lucius B. Wooten awarded contract to McPhail & Taylor, Jacksonville, to erect store and apartment building; 50x60 feet; lower floor to contain three stories; upper floor, two apartments, seven rooms each; brick side walls; frame floor and roof; gas and electric lighting; Carey's flexible cement roofing; cost \$7500; plans by C. F. Streeter, Jacksonville. (Recently noted.)

Fla., Lakeland.—Owen & Boswell have plans by and awarded contract to D. C. Boswell to erect store; 45x100 feet; brick, concrete and frame; fireproof construction; electric lighting; install elevator to cost \$200; felt roof; cost \$2750. (Recently noted.)

Fla., Milton.—S. J. Harvey awarded contract to Folghun & Co., Pensacola, Fla., to erect postoffice, store and auditorium building; 67 feet 6 inches by 70 feet; fireproof for first floor; brick and concrete; lighting not determined; tar and gravel roof; cost \$15,000; plans by Willis & Stout, Pensacola, Fla.

Fla., Miami.—Mrs. Carrie Barton, Atlantic City, N. J., it is reported, awarded contract

to erect store and dwelling at Avenue D and 9th St., to be occupied by Manuel Rippal; two stories; concrete; 50x60 feet.

Ga., Atlanta.—Mrs. John S. Cohen awarded contract to Mackle-Crawford Construction Co., Atlanta, to erect addition to building at 777 Peachtree St.; cost \$4000.

La., Koplán.—Montagne Bros., Abbeville, La., awarded contract to erect two brick stores.

La., New Orleans.—Mrs. Charles E. Casagne will erect store, restaurant and garage on Gentilly Rd.; awarded contract to William Rau.

La., New Orleans.—Joseph Oppenheimer awarded contract to Alfred Garrett, New Orleans, to erect five-story building at Dryades and Euterpe Sts.; brick and concrete; plans by Emile Weil, New Orleans. (Recently noted.)

La., Welsh.—H. A. Davidson awarded contract to Faught Lumber Co. to erect business building; brick; pressed-brick front; 50x70 feet; cost \$3000; plans by Thomas Geloin, Opelousas, La.

Miss., Aberdeen.—Dr. W. M. Paine awarded contract to Addison Brannin to erect building; two stories; brick; plate-glass front; stores on lower floor; offices above; 50x100 feet; ordinary construction; electric lighting; Barrett's specification gravel roof; cost \$9000.

Miss., Coldwater.—M. H. Daily has plans by and awarded contract to C. E. Wright, Coldwater, to erect building to contain three stores, offices and lodgeroom; 55x46 feet; brick; acetylene lighting; tin or slate roof; cost \$5000 to \$6000. (Recently noted.)

Mo., St. Louis.—Charles Gietner awarded contract to T. H. Ratz, 4333 Taft Ave., St. Louis, Mo., to erect store and tenement-house; 62x60 feet; to contain four stores and three apartments; ordinary brick construction; gas and electric lighting; floor-ply felt roofing; cost \$14,300; plans by William P. McMahon, 812 Wainwright Bldg., St. Louis. (Recently noted.)

Okla., Chickasha.—Dr. Frye will expend \$28,000 to erect store and office building; 50x113 feet; two stories; contract recently noted awarded to Lisle-Dunning Construction Co., Oklahoma City, Okla.

Okla., Kenefick.—William Kenefick, Kansas City, Mo., president Missouri, Oklahoma & Gulf Railway, will erect seven brick stores; one story; work begun under supervision of A. L. Morgan of Missouri, Oklahoma & Gulf Railway.

Tenn., Nashville.—Kuhn-Cooper-Geary Shoe Co. awarded following contracts for \$10,000 building: Foundation to E. T. Lewis Company; brick, J. J. Hutchinson & Co.; cut stone, John Oman; carpenter work, R. B. McCullom; plastering, Cooper & Ferguson; painting, Otto Highland; plumbing, John T. Fox; heating, Kennedy & Co.; concrete, Dillard Bros.; steel, Nashville Bridge Co.; roofing, Phillips & Butterff. (Recently noted.)

Tex., Bryan.—J. W. Coulter awarded contract to Street & Born, Houston, Tex., to erect business building; two stories; brick; 65x125 feet; cost \$15,000.

Tex., Caldwell.—Mrs. J. E. H. McIver awarded contract to erect three brick stores; 30x100 feet each.

Tex., Caldwell.—Dr. A. H. Foster awarded contract to erect two-story 10-room building.

Tex., Dallas.—P. P. Martinez awarded contract to Trinity Construction Co. to erect store building; 75x55 feet; gas heaters; tin roof; cost \$18,000; plans by J. O. Gill. (Recently noted.)

Tex., Houston.—Henry S. Fox, Jr., awarded contract to erect store and apartment-house. (See "Apartment-houses.")

Tex., Kingsville.—B. O. Sims, Jr., awarded contract to erect two-story brick business building; 25x80 feet.

Tex., Lytle.—J. A. Wells awarded contract to erect three store buildings.

Tex., Plainview.—Dr. J. W. Grant, Plainview, and Herman Bluecher, Albuquerque, N. M., awarded contract to W. T. McCrae, Plainview, to erect business building; two stories; 74x120 feet; two storerooms on first floor, offices above; steam heat; electric lights; cost \$35,000; plans by Trost & Trost, El Paso; George P. Hill, Albuquerque, N. M., associate architect.

Tex., Ponder.—C. N. Skaggs awarded contract to erect brick business building; 30x85 feet.

Tex., San Angelo.—Oscar Ruffin awarded contract to R. E. Miller & H. H. Myers, San Angelo, to erect store; 25x100 feet; ordinary construction; asphalt and gravel roof; cost \$5000; plans by owner. (Recently noted.)



Tex., Shiner.—Wolters Bros. awarded contract to Neuman Bros., Kennedy, Tex., to remodel store building; plans by J. Henry Ventzen, Yoakum, Tex.

Tex., Smithville.—J. H. Chancellor awarded contract to J. B. Webb, Austin, Tex., to erect two-story brick addition to store building.

Va., Richmond.—N. W. Bowe has plans by and awarded contract to T. D. Newell, Richmond, to erect store building; 23 feet 8 inches by 80 feet; two stories and cellar; ordinary construction; low-pressure steam heat; gas and electric lighting; hand elevator; slag roof; cost \$5000. (Recently noted.)

Va., Portsmouth.—S. Lasting awarded contract to A. B. Roane to erect three-story brick store; gravel roof; cost \$12,000.

Va., Richmond.—James Fox & Sons, Richmond, have contract to erect building on Stuart Ave. to cost \$44,000.

W. Va., Charleston.—Robert Brabbin and Conn Murphy will erect two-story business building; yellow pressed brick; awarded contract to Givin & Givin.

## THEATERS

D. C., Washington.—Columbia Amusement Co. awarded contract to Skinker & Garrett, Evans Bldg., Washington, to erect building on U St. between 14th and 15th Sts.; front of lower floor for moving-picture theater; other portion for music-publishing establishment; two stories; brick and steel; 51x85 feet; steel and wood joists; first floor fireproof; indirect steam heat with fans; electric lighting; slag roof; cost \$12,795; plans by George P. Hales, 1406 G St. N. W., Washington.

# RAILROAD CONSTRUCTION

## RAILWAYS

Ala., Birmingham.—C. R. Carter, 1831 Fifth Ave., Birmingham, one of the incorporators of the Birmingham-Tuscaloosa Railway & Utilities Co., says that locating engineers are now working between Tuscaloosa and Bessemer. Entire line will be 54 miles long from Birmingham to Tuscaloosa. Morris Bros., bankers, 1421 Chestnut St., Philadelphia, Pa., financed the plan. George I. Brown, Birmingham, is general manager. Another report quotes Mr. Brown as saying that work will be rushed from the Tuscaloosa end by placing double shifts of men on the construction from Tuscaloosa to Holt. As soon as the road is finished to Holt, construction from there to Bessemer will begin.

Ala., Gadsden.—The Seaboard Air Line, says a report, is securing options for right of way to build a branch between Wellington and Lagarde in order to reach Gadsden. W. D. Fayette, Portsmouth, Va., is chief engineer.

Ala., Jonesville.—The Gulf, Florida & Alabama Railway, says a report, has let contract to J. T. McCarthy & Co. of Gainesville for 20 miles of grade on its extension north from Jonesville.

Ark., Helena.—The Missouri & North Arkansas Railroad, according to a report, contemplates an extension which will make connection for Memphis, Tenn. G. L. Sands, J. McDonald and W. S. Holt are receivers, Security Bldg., St. Louis.

Ark., Paris.—Survey is reported begun at Dardanelle, Ark., for the contemplated extension of the Fort Smith, Subiaco & Eastern Railway for an extension of about 25 miles to Dardanelle. Henry Stroup, Paris, Ark., is president.

Fla., Chipley.—The Birmingham, Columbus & St. Andrews Railway, now 38 miles long from Chipley to Southport, Fla., may be extended to Panama City, Fla., about 10 miles. A. D. Campbell, Chipley, Fla., is receiver.

Fla., St. Petersburg.—Thomas E. Lucas of Tampa, Fla., says there is nothing definite at present concerning the proposed railway from Indian Rocks (not Indian Springs, as was reported) to St. Petersburg, Fla.

Ga., Nashville.—Concerning the recent report that the Ocala Southern Railroad Co. would build an extension from Nashville to Waycross, Ga., President J. A. J. Henderson, Ocala, Ga., says it is intended to construct a line which will extend from Macon, Ga., to Jacksonville, Fla., 230 miles, via Perry, Unadilla, Rochelle, Fitzgerald, Ocala, Alapaha, Nashville, Milltown and Dupont, Ga. No date fixed for bids on construction. Concerning this it may be noted that an extension is being finished between Fitzgerald and Rochelle, and the company is now operating about 50 miles of line connecting Fitzgerald, Ocala, Alapaha, Nash-

Okla., Chickasha.—J. D. Sugg awarded contract to Lisle-Dunning Construction Co., Oklahoma City, Okla., to erect theater; ordinary construction; steam heat; electric lighting; tar and gravel roof; cost \$40,000; plans by Sanguinet & Staats, Fort Worth, Tex. (Recently noted.)

Tex., Mineral Wells.—W. E. Mayes awarded contract to Shirley & Galley, Box 513, Mineral Wells, to erect moving-picture theater; 46x90 feet; ordinary construction; electric lighting; gravel roof; cost \$7000; plans by H. Lein Baugh, Mineral Wells. (Recently noted.)

## WAREHOUSES

Mo., Kansas City.—E. J. Meyer awarded contract to E. L. Winn, Kansas City, to remodel warehouse at 1225 McGee St.; concrete, steel and brick; cost \$14,500.

Mo., St. Louis.—Gus V. Brecht Butchers Supply Co. awarded contract to P. J. Moynihan, 1916 Olive St., St. Louis, for erection of warehouse, etc., recently noted. (See "Metal-working Plants.")

Va., Richmond.—Virginia School Supply Co. awarded contract to P. J. White & Son, 1103 Main St., Richmond, to erect warehouse; cost \$25,000.

W. Va., Hinton.—Hinton Warehouse Co. has plans by and awarded contract to C. W. McNulty, Charleston, W. Va., to erect warehouse; three stories; 25x125 feet; fireproof construction; electric freight elevator; asphalt roof; install cold-storage equipment; cost \$7500; cost of heating plant, \$350; all supplies purchased except elevator. (Company recently noted incorporated with \$20,000 capital stock.)

ville and Irwinville, Ga., the latter being on a nine-mile branch. Edward Wilson, Fitzgerald, Ga., is chief engineer.

Ga., Waycross.—The Waycross & Western Railroad Co., represented by W. W. Lambdin, attorney, of Waycross, has been authorized to increase its capital stock from \$350,000 to \$710,000 to build its proposed extension from Sirmans to a point on the Georgia Southern & Florida Railway, 35 miles. A. K. Sessoms, Waycross, Ga., is president.

Ky., Beaver Creek.—Boxley Bros. of Roanoke, Va., are reported given contract for the first seven miles of the Elkhorn & Beaver Creek extension to lands of the Elkhorn Fuel Co., J. A. Clark of Fairmont, W. Va., president. It includes two tunnels. Entire line will be 22 miles long from Beaver Creek to Steele's Branch. Ballard, Herrint & Severer are said to have the general contract.

La., Belle Helene.—The St. Elmo & Belle Helene Railway is reported to have completed grading on about 11 miles of its line from St. Elmo to Belle Helene and a point near Edenborn, La., and tracklaying is to begin immediately. G. W. Reese is president and B. A. Webb chief engineer at 432 Audubon Bldg., New Orleans, La.

La., Eunice.—The Newell Lumber Co., which is building a sawmill in Eunice, will, it is announced, construct a lumber railroad 15 or 20 miles long.

La., Jonesville.—The Louisiana & Arkansas Railway, says a report, has completed tracklaying to Jonesville on its extension there from Jena, La., and as soon as ballasting and surfacing are finished the extension will be operated. R. S. Wilds is reported given the contract for the last 1½ miles (which is a straight dirt dump), from the end of the Jonesville bridge to a connection with the Natchez & Western Railway, and it is expected to operate through to Natchez by June 15.

La., Lake Charles.—The Kansas City Southern Railroad Co. denies a recent press report that it contemplated enlarging its yards at Lake Charles.

La., Lake Charles.—The Santa Fe system, it is reported, will extend to the oil field at Vinton, La. F. Merritt, chief engineer, Galveston, Tex., may be able to give information.

La., Monroe.—Monroe.—The Monroe, Louisiana & Gulf Railway Co., capital \$1,000,000, is chartered to build or acquire a railroad from Monroe, La., southwest to Winnfield, with connection to New Orleans. Financing is reported complete. J. M. Parker of New Orleans is president; T. J. Shelton, vice-president; Percy Sandel, secretary and treasurer. Other directors are I. L. Thomas and W. B. Clarke. Mr. Parker is general manager and Mr. Shelton traffic manager of the Arkansas, Louisiana & Gulf Railroad, with headquarters at Monroe, La.

La., New Orleans.—An expenditure of \$1,

000,000 on the Southern Pacific's lines in Louisiana is contemplated, according to a local report. E. B. Cushing, Houston, Tex., is chief engineer of construction.

Md., Weverton.—The Baltimore & Ohio Railroad is reported surveying near Weverton for contemplated improvements on its line between Harper's Ferry, W. Va., and Knoxville, Md. F. L. Stuart, Baltimore, is chief engineer.

Miss., Gulfport.—The Gulfport & Western Railway Co., it is reported, will let contract soon for the first 10 miles of its proposed line from Gulfport toward Covington, La. E. W. Long of New York is now investigating at Gulfport.

Mo., St. Louis.—The St. Louis, Afton & Sunset Railway Co., says a report, has filed mortgage to secure \$300,000 of 5 per cent. 50-year bonds for construction of its line from St. Louis to Fenton, Mo. John M. Storm is president and James Arbuckle secretary of the railroad company. Victor J. Miller, 619 National Bank of Commerce Bldg., St. Louis, and others are also interested.

N. C., Concord.—The Norfolk Southern Railroad Co. denies the recent press report that it contemplates an extension to Concord, N. C., at this time, but it is intimated that the work may be undertaken later.

N. C., Hendersonville.—The Blue Ridge Interurban Railway Co. has filed petitions in the United States Court to condemn certain property for the construction of its proposed line from Hendersonville via Flat Creek and Saluda, N. C., to a point on Green River. C. A. Carlson of the Hendersonville Traction Co., Hendersonville, N. C., may be able to give information. His other address is Red Bank, N. J.

N. C., Hendersonville.—W. A. Mauney of Kings Mountain, N. C., says concerning the Saluda-Hendersonville Interurban Railway Co. that the other interested parties have sold their real estate on Green River in Henderson county to the Hendersonville Light & Power Co., and the railroad plan is abandoned for the present.

N. C., Palmerville.—Grading is reported begun for a three-mile railroad from a connection with the Southern Railway at Palmerville to the Narrows, where the Southern Aluminum Co. is building a hydro-electric power plant.

N. C., Newbern.—President T. M. Emerson of the Atlantic Coast Line, Wilmington, N. C., is quoted saying that survey was made several years ago for a line to give Newbern a northern connection via the Coast Line, and that it will be built, but he cannot now state just when. E. B. Pleasants, Wilmington, N. C., is chief engineer. The extension, it is understood, would be from Grifton southeast to Newbern, about 30 miles.

Okla., Blackwell.—The proposed line of the Interstate Railroad & Traction Co. of Blackwell is from Arkansas City, Kans., to Ponca City, Okla., 50 miles, via Chilocho, Blackwell and Tonkawa, Okla. O. L. Brown of Arkansas City is president. W. L. Cunningham of that place and J. M. Van Winkle and C. B. Harold of Ponca City are also interested.

Okla., Mangum.—The Colorado, Texas & Mexico Railroad Co., which proposes the construction of a line from Brandon, in the province of Manitoba, Canada, to Aransas Pass and Corpus Christi, Tex., which, with branches, will have about 2500 miles of track, is reported to have elected directors at its annual meeting in Mangum thus: President, Morris R. Locke of Abilene, Tex.; vice-president, Morris Burford Locke of Waterloo, Iowa; general solicitor, Fred. Cockrell of Abilene, Tex.; treasurer, P. A. Janeway, and secretary, John M. Blackburn, both of Mangum, the latter being also chief engineer; James Gates, also of Mangum; Harry C. Irwin of Pittsburgh; Thos. N. Slaten and A. Gordon of Mangum.

Okla., Stillwater.—It is announced in New York that the Oklahoma Public Service & Interurban Lines Co. has sold to the Knickerbocker Construction Co. of New York \$300,000 of its first mortgage bonds, the proceeds of which are for construction. A. G. Lampke, 27 Cedar St., New York, is assistant general counsel. Louis J. Lampke, Stillwater, Okla., is general manager and chief engineer. (See Manufacturers Record, March 27.)

Tenn., Harriman.—Information received from Knoxville says that the survey recently reported proceeding near Harriman by Chas. Fonde and others is not for a railroad, although its object is not yet announced.

Tex., Beaumont.—Stone & Webster Engineering Corporation, 147 Milk St., Boston; Mark Lowd, general manager Southwestern system, Dallas, Tex., has awarded contracts for grading, fencing, culverts and bridges for the Interurban railway from Beaumont to Port Arthur, Tex., about 20 miles, to Stuart

& Nichols of Beaumont, Tex. The Lone Star Culvert Co. of San Antonio, Tex., will build the culverts. Material for fenceposts, piling and some bridges will be furnished by the Louisiana Red Cypress Co. of New Orleans.

Tex., Beaumont.—The press report that the Kansas City Southern Railroad would enlarge its yards at Beaumont is denied by the company.

Tex., Corpus Christi.—A local committee has agreed, it is reported, to underwrite a \$60,000 bonus for the San Antonio, Uvalde & Gulf Railroad to enter Corpus Christi. Right of way through Nueces county and terminal site are to be donated for the line, which is to be operated by May 1, 1914. A. R. Ponder is vice-president and general manager, and E. R. Breaker chief engineer, both at San Antonio, Tex. G. M. Jowers, locating engineer, is making survey from McGregorville to Corpus Christi, nine miles.

Tex., Dalhart.—D. C. Morris, chief engineer, is reported surveying for the proposed construction of the Enid, Ochiltree & Western Railway's 250-mile line to connect Enid, Okla., with Dalhart via Ochiltree, Tex. C. H. Shuman of Dalhart, Tex., is general manager.

Tex., Fort Stockton.—The Kansas City, Mexico & Orient Railway, it is announced, has completed its extension from Fort Stockton to Alpine, Tex., 63 miles, and will operate it immediately.

Tex., Freeport.—S. M. Swenson & Sons, 37-43 Wall St., New York, telegraphs the Manufacturers Record thus: "Secretary Missouri, Kansas & Texas Railway confirms purchase interest in Houston & Brazos Valley Railroad. This puts the Missouri, Kansas & Texas into Freeport." This would appear to indicate that the projected extension of the Houston & Brazos Valley road from Velasco to Freeport, about three miles, is assured. It will include construction of a bridge across the Brazos River. Felix Jackson, Velasco, Tex., is president of the latter road.

Tex., Greenville.—Tracklaying is reported proceeding on the Blue Ridge Interurban Railway from Greenville to Anna, Tex., and a survey also completed from Anna to Van Alstyne, Tex., for A. R. Nicholson of Greenville.

Tex., Lamesa.—The report that the Santa Fe would build an extension from Lamesa to Sterling City, Tex., is officially denied.

Tex., Temple.—Survey for the proposed interurban railway to connect Waco, Temple, Belton, Georgetown, Austin and San Antonio will, says a report, be made through Williamson county. Among those interested are Dr. J. C. Hardy of Belton, Tex., and A. F. Bentley of Temple, Tex.

Va., Richmond.—The Richmond & Rappahannock Railway Co. has amended its charter to increase its capital stock from \$300,000 to \$500,000. Construction on the extension of the Seven Pines line toward the Rappahannock River at Urbanna is reported proceeding rapidly. Col. Joseph E. Willard of Richmond is president.

W. Va., Fayetteville.—Phillip Konrad of Kanawha Falls, says a report, is engaged by the Fayette Traction Co. to survey for its proposed railroad of 4½ miles from Fayetteville to Fayette Station. C. W. Dillon is president at Fayetteville.

W. Va., Martinsburg.—The Shenandoah Valley Railway Co., which proposes to build a trolley line from Williamsport, Md., to Hedgesville, Martinsburg, Shepherdstown and Charlestown, W. Va., and Winchester, Va., altogether from 60 to 70 miles, has organized by electing directors thus: Gray Silver of Martinsburg, president and general manager; C. W. Watson of Fairmont, W. Va., vice-president; Frank E. Wilson of Martinsburg, secretary; J. O. Watson of Fairmont, treasurer; J. H. Wheelwright and Van Lear Black of Baltimore; Stuart W. Walker, J. William Stewart, Dr. B. N. Myers and Clarence E. Martin, all of Martinsburg, W. Va. Dudley D. Britt of Clarksburg, W. Va., is chief engineer, and Martin & Seibert of Martinsburg, general counsel. The Fairmont and Baltimore members of the board are also interested in the Monongahela Valley Traction Co. of Fairmont, W. Va. It is said that the line may be ultimately extended from Williamsport up to Hagerstown, Md. Date not set for construction or equipment bids.

W. Va., Martinsburg.—The Baltimore & Ohio Railroad, says a local report, is surveying for improvement of the Martinsburg yards and also for a revision of line between Martinsburg and Hancock. F. L. Stuart, Baltimore, is chief engineer.

W. Va., Morgantown.—The Kendall Lumber Co., House Bldg., Pittsburgh, Pa., says that construction of the first eight miles of the Cheat Haven & Bruceton Railroad is pro-

gressing as rapidly as can be expected, considering the nature of the work, and it should be completed by August 1 at the latest.

### STREET RAILWAYS

D. C., Washington.—Under a bill recently passed by Congress and approved by the President, the Washington Railway & Electric Co. is authorized to build an extension from Wisconsin Ave. along Macomb St. and Massachusetts Ave. to the District line. It must be complete within six months. Clarence P. King is president.

Fia., Miami.—B. B. Tatum has applied for a street-railway franchise on behalf of the Lawrence Estate Land Co., after, it is reported, the withdrawal of an application made recently by J. E. Lummus and others.

La., New Orleans.—The New Orleans Railway & Light Co. is contemplating an extension of the Clio Street line up Calbarne Ave. from Napoleon Ave. to the boundary of the parish. Hugh McCloskey is president.

Md., Baltimore.—An ordinance has been in-

troduced in the City Council to authorize the United Railways & Electric Co. to extend its Monument Street line to Orangeville, a suburb. W. A. House is president of the company.

Miss., Meridian.—The Meridian Light & Railway Co. will, upon completing the extension of its East End line, begin work on and complete the West End extension, which has been started.

N. C., Durham.—The Henry L. Doherty Company, 60 Wall St., New York, which has acquired control of the Durham Traction Co., says that no plans have yet been made for improvements.

Tenn., Nashville.—The City Council, which rejected the application of W. O. Palmer of Detroit for a street-railway franchise in Nashville, voted to reconsider its action, and the bill is to come up again at its next meeting.

Va., Richmond.—The Virginia Railway & Power Co. is reported contemplating construction of double track on High St. from Chestnut St. to the city limits.

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

**Abattoir Machinery and Equipment.**—Proposals received until April 15 by City Council, Beaumont, Tex., for furnishing and installing machinery and equipment necessary to complete abattoir; plans and specifications and list of machinery and equipment on file in office of J. G. Sutton, City Secretary; proposals must be filed on or before April 15.

**Agricultural Machinery.**—Edward A. Dearnle, 16 Queen's Park, East, Port of Spain, Trinidad, B. W. I.—Correspondence with American manufacturers of agricultural machinery, especially tractors operated by kerosene.

**Air Compressor.**—Water, Light and Power Commission, L. L. Patterson, clerk, Burlington, N. C.—Prices on air compressor to lift water from deep well.

**Alligator Skins.**—N. Uchida & Co., No. 14, Yagembori, Nihombashi-ku, Tokio, Japan. Correspondence with alligator skin dealers and exporters in Florida; at present wants annual supply of 20,000 to 30,000 green salted alligator skins, all belies, two up to five feet.

**Bicycle Supplies, etc.**—J. L. Pearson, Keysville, Va.—Addresses of manufacturers of or dealers in bicycle repairs and supplies.

**Boiler.**—Caldwell Bros., Columbia, Tenn.—Prices on 35 or 40-horse-power second-hand boiler; good condition.

**Bolt-threading Machine.**—American Metallic Packing Co., Lexington, Ky.—First-class used machine; single head, with dies, for threading bolts 1/4 to 1 1/2 or 2 inches. Give description, make, etc.

**Brick.**—Southern Utilities Co., 1110 Heard National Bank Bldg., Jacksonville, Fla.—Bids on brick for delivery in carload lots at Fort Myers, Punta Gorda, Arcadia and Miami, all in Florida.

**Bridge Construction.**—See "Road Construction, etc."

**Bridge Construction.**—Board of Public Roads, Spotsylvania county, care of M. B. Rowe, Fredericksburg, Va., receives bids until April 10 for construction of reinforced concrete bridge and approaches; bids received for constructing either bridge or approaches, or both; plans and specifications on file with Mr. Rowe and S. C. Liggett, engineer, Fredericksburg; certified check for \$100; further information available on application to P. St. J. Wilson, State Highway Commissioner, Richmond, Va.

**Bridge Construction.**—Bids received until April 15 for construction of two reinforced concrete viaducts across Trinity River; Samuels Ave. viaduct, 467 feet long, nine 50-foot girder spans, roadway 30 feet wide, each sidewalk five feet wide; East 4th St. viaduct, 465 feet 4 inches long, nine 50-foot girder spans, roadway 30 feet wide, sidewalks five feet each; R. E. Bratton, County Judge, Fort Worth, Tex.; plans, specifications, etc., obtainable from J. A. Mulholland, County Auditor.

**Bridge Construction.**—Proposals received at office of Dan C. Smith, Jr., City Controller and City Secretary, City Hall,

Houston, Tex., until April 7 for construction of reinforced concrete bridge on San Jacinto St., across ship channel; two kinds of bayou spans will be considered, one being concrete arch and the other a Scherzer rolling lift bridge; specifications and plans, bidding blanks, etc., obtainable upon application at office of F. L. Dormant, City Engineer, Houston, Tex.; certified check for \$2300 and \$11,300 required to be deposited with each bid for two types contemplated; H. B. Rice, Mayor.

**Bridge Construction.**—Proposals received at office of Dan C. Smith, Jr., City Secretary, City Hall, Houston, Tex., until 12 noon April 7 (extended date) for construction of reinforced concrete bridge to connect Capitol Ave. and Rusk St. with Moore and Young Sts.; plans, specifications and bidders' blanks obtainable on application at office of City Engineer, F. L. Dormant, City Hall; certified check for \$4300; bidders requested to examine site.

**Bridge Construction.**—Mobile County Board of Revenue opens bids April 7 at Mobile, Ala., for construction of reinforced concrete bridges and culverts on St. Stephens Rd.; certified check for \$200; plans and specifications may be seen at office of County Engineer, Room 11 Bank of Mobile Bldg., Mobile.

**Broom Machinery.**—Piedmont Broom Co., H. W. Hawkins, general manager, Gastonia, N. C.—Prices on new or second-hand machine sticher for brooms.

**Building Materials.**—J. H. Fruechte, Gadsden, Ala.—Prices on mill work; ornamental and heavy castings; structural steel; rift yellow pine flooring, 1 1/4 x 2 1/4; hydrolithic cement and glass.

**Building Materials.**—Walter A. Reed, 2219 Floy Ave., St. Louis, Mo.—Prices on all materials for brick and frame dwellings.

**Building Materials.**—Herbert L. Cain, Main Street Bank Bldg., Richmond, Va.—Prices on 50-foot plate-glass and pressed-brick front, slag roofing, iron work, plumbing and gasfitting for \$4500 store and office building at Smithfield, Va.

**Building Materials.**—Ira P. Twigg, 153 Maryland Ave., Cumberland, Md.—Prices on building materials, including cement, plaster, roofing, plumbing supplies, lumber and hardware.

**Building Materials.**—Guy N. Belcher, 103 Main Street Bank Bldg., Richmond, Va.—Prices on plate-glass and marble fronts, concrete base for wood floors and metal ceilings.

**Building Materials.**—Neuman Bros., Kennedy, Tex.—Prices on Mosale tile asbestos-lith and cork tile floors, metal doors, sash, frames, cement plaster and Portland cement.

**Building Materials.**—J. A. Willis, Key West, Fla.—Prices on building materials for \$100,000 commercial hotel.

**Building Materials.**—J. K. Roberts, Carthage, N. C.—Catalogues and prices on leaded art glass windows, slate roofing, copper valleys, white cement, gray limestone and cement blocks for trimmings.

**Building Materials.**—N. B. White, 1219

N. 3d St., Knoxville, Tenn.—Prices on building materials.

**Building Materials.**—P. J. Krouse, Meridian, Miss.—Prices on composition work for roof, wire-cut face brick, iron, tile floors, plate glass, metal bars, etc.

**Building Materials.**—Hines Lumber & Coal Co., El Paso, Tex.—Prices on building materials, including metal lath, roofing, etc.

**Burlap.**—J. R. Mattern, Julian, Pa.—Addresses of manufacturers of burlap; latter to be in original bolts or in pieces no smaller than 6x9 feet, ordinary coarse quality used to make grain sacks, fertilizer sacks, to wrap furniture, etc., in 500, 1000 pound and larger lots.

**Canning Equipment, etc.**—O. A. Thaxton, Moultrie, Ga.—Information, etc., on equipment for canning sweet potatoes, vegetables, etc.; also supplies and markets for same.

**Canning Machinery, etc.**—Dr. W. L. Stevenson (for St. Tammany Canning Co.), Covington, La.—Information on canning plants and prices on machinery.

**Cement.**—Southern Utilities Co., 1110 Heard National Bank Bldg., Jacksonville, Fla.—Bids on cement for delivery in carload lots at Fort Myers, Punta Gorda, Arcadia and Miami, all in Florida.

**Coal.**—Victoria Safe & Lock Co., Victoria, Tex.—Good grade bituminous coal.

**China-ware.**—N. F. Yorke, Concord, N. C.—Addresses of manufacturers of American dinner sets.

**Church Furniture.**—J. K. Roberts, Carthage, N. C.—Catalogues and prices on church furniture.

**Cranes.**—Proposals received at Bureau of Yards and Docks, Navy Department, Washington, D. C., until May 3, 1913, then publicly opened, for four electric traveling bridge cranes and two electric traveling wall cranes for general foundry, navy-yard, Puget Sound, Wash. Plans and specifications obtained on application to bureau or to commandant of navy-yard named. H. R. Stanford, Chief of Bureau.

**Crushed Stone, etc.**—United States Engineer Office, Wilmington, N. C.—Proposals for furnishing about 16,000 tons of crushed stone or gravel received at this office until April 25. Information on application. H. W. Stickle, Major, Engineers.

**Electric-light Equipment and Material.**—William J. Davis, Connelly Springs, N. C., will install kerosene engine, 15 horsepower, to drive 10-kilowatt generator for lighting hotel and grounds; also needs wiring and material for same.

**Electrical Equipment.**—J. A. Willis, Key West, Fla.—Prices on electrical equipment for \$100,000 commercial hotel.

**Electrical Equipment.**—N. B. White, 1219 N. 3d St., Knoxville, Tenn.—Prices on electrical equipment for \$5000 church building.

**Electrical Machinery.**—Bids received until April 7 by Pea River Power Co., Chas. Henderson, president, Troy, Ala., for furnishing one 350 K. V. A. and two 600 K. V. A. three-phase 60 cycle 2300-volt water-type generators; also governors, transformers and switchboard equipment and mountings; speed of 350 K. V. A. generator, 277 R. P. M.; speed of 600 K. V. A. generator, 150 R. P. M.

**Electrical Machinery.**—R. W. Thompson, El Reno, Okla.—Prices on 50-horse-power electric motor, two phase.

**Electrical Machinery, etc.**—Proposals received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until April 19 for furnishing induction and direct current motors, copper louver panels and rubber valves; blanks and general information relating to this circular (770) obtainable from this office and offices of assistant purchasing agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, and 1086 North Point St., San Francisco; also from United States Engineer offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, and Commercial Club, Tacoma. F. C. Boggs, Major, Corps of Engineers, general purchasing officer.

**Electric Wiring, etc.**—Gordon Hotel Co., North Wilkesboro, N. C.—Prices on electric wiring and lights for \$35,000 hotel.

**Engine.**—Darlington Brick Co., Darlington, S. C.—Second-hand Corliss engine, 125 horse-power, good condition.

**Engine.**—Beeville Cottonseed Oil Mill Co., Beeville, Tex.—New or second-hand Corliss engine; 16x36 or 18x36, left-hand, heavy-duty, complete, guaranteed. Give price f. o. b. Beeville.

**Engine.**—St. Pauls Light & Power Co., St. Pauls, N. C.—Receiving bids on 100-horse-power engine.

**Engine.**—Southwestern Manufacturing Co., 323 E. California Ave., Oklahoma City, Okla.—Prices on new or second-hand 20x24 heavy duty twin slide valve engine.

**Excelsior Machinery, etc.**—W. H. Sykes, Smithfield, Va.—Addresses of manufacturers of excelsior cutting machines; also of wholesale dealers in excelsior.

**Fire Department Equipment.**—See "Hose Wagon."

**Furniture.**—W. N. Lloyd, 619 E. Oglethorpe Ave., Savannah, Ga.—Correspondence with manufacturers of furniture.

**Gas Engines.**—David F. Armstrong, Columbia, N. C.—Correspondence with manufacturers of and dealers in gas engines.

**Grading, etc.**—Office of State Highway Commission, Richmond, Va.—Bids received until April 3 for grading and draining 7 1/2 miles of road from Clintwood to Ford of McClure River; plans and specifications on file at clerk's office and at office of P. St. J. Wilson, State Highway Commissioner, Richmond; certified check for \$250.

**Grading.**—Bids received by Board of Road Commissioners, St. Clair county at Courthouse, Ashville, Ala., until April 14 for grading two miles of Caldwell rd.; 8000 cubic yards excavation; profile and specifications on file in office of Judge of Probate, Ashville, and office of W. S. Keller, State Highway Engineer, Montgomery, Ala.

**Grass Roots.**—Chatham Estate, Charlotte, N. C.—40 to 50 tons Bermuda grass roots.

**Grinding Machinery.**—M. S. Brown, Sulphur Springs, Ala.—Addresses of manufacturers of machinery for grinding limestone or marl for agricultural purposes.

**Gutta-percha Nozzles, etc.**—W. S. Turney, care C. T. Darby & Co., Conroe, Tex.—Addresses of manufacturers of gutta-percha nozzles; wants nozzles for soda-water fountains.

**Heating Plant.**—F. G. Drouet, Meeker, La.—Prices on hot-water and hot-air heating plants.

**Heating Plant.**—J. K. Roberts, Carthage, N. C.—Catalogues and prices on hot-water heating plant.

**Heating Plant.**—Gordon Hotel Co., North Wilkesboro, N. C.—Prices on steam-heating plant, including radiators, etc.

**Hoisting Equipment.**—Solon Jacobs & Co., 601 Woodward Bldg., Birmingham, Ala.—5 or 10-ton second-hand stiff-leg derrick, 50 or 60-foot boom, with hoisting engine, complete.

**Hoisting Engine.**—American Metallic Packing Co., Lexington, Ky.—Second-hand single-drum hoisting engine, without boiler. Give description, location, etc.

**Hose Wagon.**—City of Mount Olive, N. C.—Prices on one-horse hose wagon, if practical, with ladder attachment; M. T. Brazeale, chief.

**Ice Machinery.**—T. S. Driscoll, Columbia, Va.—Small second-hand ice plant; has boiler and engine.

**Incinerator.**—Bids received, to be opened April 25, for construction of incinerator or destructor plant; daily capacity not less than 120 tons garbage; specifications obtainable from Mayor; Richard J. Davant, Mayor, Savannah, Ga.

**Interior Decoration.**—Bids received by Allegany County Commissioners, Cumberland, Md., until April 14 for decorating interior of courthouse; plans and specifications at courthouse; Angus Ireland, clerk.

**Iron, etc.**—Weller Iron Co., Birmingham, Ala.—Scrap iron, metals and relay rails.

**Iron Sheathing.**—George J. Adams, 39 South St., New York.—Prices on second-hand iron sheathing.

**Kitchen Equipment.**—Proposals received at Bureau of Yards and Docks, Navy Department, Washington, D. C., until April 12, then publicly opened, for kitchen equipment at Naval Hospitals, Portsmouth, N. H., and Newport, R. I.; estimated cost \$6000. Plans and specifications obtained on application to bureau or to commandant of navy-yard or naval station named. H. R. Stanford, Chief of Bureau.

**Lathe.**—American Metallic Packing Co., Lexington, Ky.—First-class used iron-working engine lathe, 38 to 48-inch swing by 15 to 18-foot bed. Give description, location, etc.

**Locomotive.**—Southwestern Manufacturing Co., 323 E. California Ave., Oklahoma City, Okla.—Prices on one 50-ton and one 35-ton (consolidated or Mogul type) locomotive. Give location, make, when built, condition, with full specifications.



**Lumber, Scales, etc.**—Navy Department, Bureau of Supplies and Accounts, Washington, D. C., opens bids April 29 for furnishing eight folding platform scales, schedule 5308; 20,000 feet firsts mahogany and miscellaneous lot of white pine, schedule 5306; 1400 pounds hard-rolled round-bar copper, schedule 5305; delivery Navy-yard, Norfolk, Va.; for copies of schedules apply to navy pay office nearest navy-yard.

**Machine Tools.**—Batson Air Navigation Co., Savannah, Ga.—Bids on medium machine lathe, modern 8-foot bed patternmaker's lathe, drill press, single surfacer, grinder, polisher and shaper.

**Machine Tools.**—Lamb Manufacturing Co., 3217 Commerce St., Dallas, Tex.—Prices on 18-inch and 20-inch swing engine lathes, taking 8 feet or more between centers; also power drill presses.

**Malleable Castings, etc.**—J. F. Bailey, 1915 Pearl St., Jacksonville, Fla.—Addresses of manufacturers of malleable castings; also drop forge (steel).

**Manufactures.**—A. A. Pozzi, 827 Can-gallo, Buenos Aires, Argentina, S. A.—Correspondence with manufacturers, with view to representation.

**Mining Equipment.**—Martins Fork Coal Mining Co., H. M. Brock, secretary, Harlan, Ky.—Prices on boiler and engine for shaker in mine of about 12 tons daily capacity; new or second-hand steel T rails for tram road, mine incline, etc.; drum wheel; wire rope, etc.

**Mining Machinery.**—Deep Red River Mining & Milling Co., A. J. Armour, Route 2, Manitou, Okla., opens bids about April 10 for mining machinery.

**Naval Supplies.**—Navy Department, Bureau of Supplies and Accounts, Washington, D. C., opens bids April 22 for furnishing 18,000 pounds Trinidad asphalt, 1450 pounds hard drawn sheet brass, 500 yards hydraulic gun cotton press cloth, 28,100 pounds corrugated galvanized sheet steel and 60 drawn steel tubes, schedule 5312; delivery Navy-yard, Washington, D. C.; for copies of schedules apply to navy pay office nearest navy-yard.

**Naval Supplies.**—Navy Department, Bureau of Supplies and Accounts, Washington, D. C., opens bids April 15 for furnishing miscellaneous lot of Louisiana red cypress, schedule 5293; miscellaneous lot of oxy-acetylene equipment, schedule 5287; delivery Navy-yard, Norfolk, Va.; also receives bids until April 15 for furnishing 500 reams lens paper and 39,600 pounds hot-rolled or forged steel, schedule 5292; delivery Navy-yard, Washington, D. C.; for copies of schedules apply to navy pay office nearest navy-yard. T. J. Cowie, Paymaster-General.

**Naval Supplies.**—Navy Department, Bureau of Supplies and Accounts, Washington, D. C., opens bids April 22 for furnishing 600 zinc rods for batteries, schedule 5294; 180 all-steel wheelbarrows, schedule 5297; 400 gallons white hard-oil finish and 5000 pounds chrome in oil green, 1000 gallons white damar varnish and 2100 pounds artificial vermilion in oil, schedule 5298; delivery Navy-yard, Norfolk, Va.; for copies of schedules apply to navy pay office nearest navy-yard. T. J. Cowie, Paymaster-General.

**Oil-mill Machinery, etc.**—Madeira-Mamore Railway Co., 25 Broad St., New York. Information on Brazil nut products and prices on machinery to extract oil, etc.; wants bids on machines to shell nuts, crush meat and to crush nuts without shelling them; also information relative to disposal of oil and cake products.

**Paving, etc.**—Bids received April 3 by Board of Public Works, Nashville, Tenn., for construction of granitoid curbing and sidewalks on portion of various streets; certified check for \$100; William W. Southgate, City Engineer.

**Paving.**—Board of Aldermen, Gastonia, N. C., receives bids until April 4 for construction of about 38,000 square yards concrete sidewalks; bids addressed to John R. Rankin, clerk; specifications and proposal forms obtainable from clerk.

**Paving.**—Proposals received at office of Dan C. Smith, Jr., City Secretary, until April 14 for grading and paving portion of Walker Ave. with No. 1 repressed vitrified brick, with asphalt filler pavement; specifications obtainable on application to F. L. Dormant, City Engineer; H. B. Rice, Mayor, Houston, Tex.

**Paving.**—Proposals received until April 2 by Executive Board of Charlotte, N. C., for paving certain streets and sidewalks; work consists of about 36,370 square yards of paving and 5962 square yards concrete sidewalks, with necessary curbing, etc.; bids received on sheet asphalt, asphaltic concrete, vitrified

brick and wood-block pavement; certified check for 5 per cent. of amount of bid; Jos. Firth, City Engineer; A. H. Hearn, clerk.

**Paving.**—Proposals received at office of Dan C. Smith, Jr., City Secretary, until April 7 for paving portion of Fannin St. with creosoted wood block pavement; specifications and all necessary information obtainable on application at office of F. L. Dormant, City Engineer; H. B. Rice, Mayor, Houston, Tex.

**Paving.**—Bids, marked "Proposals for improving the area bounded by Linwood, Eastern and Elwood Aves. and Pratt St., known as Patterson Park extension, addressed to Board of Awards, care City Register, City Hall, Baltimore, Md.," received until April 9; specifications and plans at office Board of Park Commissioners, Druid Hill Park; \$3500 certified check; Wm. S. Manning, general superintendent, Board of Awards.

**Paving, etc.**—Proposals addressed to Mayor and Board of Aldermen, Morristown, Tenn., received at office of D. C. Morris, recorder, until April 15 for construction of 15,730 square yards of sheet asphalt paving (including grading and guttering) in Improvement District No. 4; excavation about 6550 cubic yards; also for construction of 2633 square yards of grading, guttering and curbing in district No. 5; excavation, 2043 cubic yards; certified check for 10 per cent. of cost.

**Pipe.**—Caldwell Bros., Columbia, Tenn.—Prices on 3600 feet two and four-inch second-hand cast or steel pipe (cast preferred).

forced concrete reservoir 100x150 feet, 8 feet deep, covered with galvanized iron roof supported by timber trusses; certified check \$500; plans, specifications and blank form of proposal, contract and bond obtainable at office of City Engineer, Room 206 City Hall; Dave Kugelman, chairman water and gas committee; L. E. Thornton, City Engineer.

**Road Construction.**—Bids received by Court of Marshall County Commissioners at Guntersville, Ala., until April 22 for grading, draining and surfacing with gravel or macadam part of Guntersville and Warrenton road; expenditure \$5000; also for grading, draining and surfacing with sand-clay a section of Albertville and Boaz road; expenditure \$4000; each bid \$500 certified check; W. S. Keller, State Highway Engineer.

**Road Construction.**—Proposals, addressed to County Commissioners of Carroll county, and endorsed "Proposals for Building a Section of State-Aid Highway in Carroll County," upon or along Finksburg Rd., between Finksburg Station and Finksburg, distance of about 1.2 miles, received at Westminster, Md., until April 8; bids upon blank forms obtainable at office of State Roads Commission, 534 N. Howard St., Baltimore, Md.; give prices proposed both in writing and in figures; certified check \$300; plans at office of State Roads Commission, Baltimore, Md.; Jacob N. DeHoff, president; O. E. Dodner, clerk.

**Road Construction, etc.**—Proposals, addressed to County Commissioners of Caroline

where plans may be seen; \$300 certified check.

**Road Machinery.**—City of Fort Myers, Fla., C. W. Carlton, Mayor.—Prices on machinery for shell road construction.

**Road Materials.**—City of Dadeville, Ala. Prices on quantity of slag sand, cement, limestone rock and limestone screenings; George C. Doville, Mayor.

**Roofing.**—F. G. Drouet, Meeker, La.—Prices on slate roofing.

**Safe, etc.**—Freeport National Bank, Freeport, Tex.—Prices on safe, vault, vault doors and mahogany fixtures.

**Salt.**—Athens Hide Co., 786 Broad St., Athens, Ga.—Bids on carload shipments of second-hand packers' meat salt and hide salt.

**Sawmill Machinery.**—C. W. Kilber, Central Ave., St. Petersburg, Fla.—Prices on machinery for new lumber plant.

**Sawmill Machinery.**—Edward A. Dearle, 16 Queen's Park, East, Port of Spain, Trinidad, B. W. I.—Prices on portable machine for felling tropical hardwood trees; also for sawing into planks in forest; trees grow in or near swamp lands or on hillsides, hard and of large girth.

**Sawmill Machinery, etc.**—David F. Armstrong, Columbia, N. C.—Correspondence with manufacturers of and dealers in saw, shingle and lath mill machinery.

**Scales.**—L. J. Paul, Tontitown, Ark.—Prices on wagon scale.

**Sewer Construction.**—Proposals endorsed "Proposals for Constructing Lateral Sewers and House Connections in District 16-B, Sanitary Contract No. 110," addressed to Board of Awards, received at office of City Register, City Hall, Baltimore, Md., until April 16, for constructing sewers and house connections as per plans at office of Calvin W. Hendrick, chief engineer Sewerage Commission; plans and specifications obtainable after March 29 at office of secretary of Commission, 904 American Bldg.; charge of \$10 per set for specifications and blueprints; certified check, \$3500. Approximate quantities: 14,500 linear feet vitrified pipe house connections; 17,500 linear feet vitrified pipe sewer, 8 to 18 inches diameter.

**Straw-hat Machinery.**—O. Mejia O. Calle 56 n 429, Merida-Yucatan, Mexico.—Prices on machinery for preparing and cutting straw for making straw hats; also other machinery and necessary equipment for straw-hat factory.

**Tanks.**—Proposals received at Bureau of Yards and Docks, Navy Department, Washington, D. C., until April 19 for two portable gasoline tanks for naval station, Key West, Fla.; estimated cost, \$1300. Specification obtainable on application to bureau or to commandant of naval station named. H. R. Stanford, Chief of Bureau.

**Telephone Equipment.**—War Department, Office of Chief Signal Officer, W. L. Clarke, Major, Disbursing Officer, Washington, D. C. Proposals received until April 20 for furnishing Signal Corps with 400 telephones, metal case, wall, common battery, artillery type, in accordance with specification: 403-A, 420-D and 575 and S. C. drawings 374-3, c-3, f-1, g-3, h-3, 376-3, d-1, 931 and 938, and photographs 5536 and 5537. Send for specifications.

**Telephone Supplies.**—Frankston Telephone Co., E. G. Jones, manager, Frankston, Tex.—Prices on No. 14 B. B. wire, poles and cedar crossarms.

**Textile Machinery.**—James Hamilton, City Engineer, Chester, S. C.—Addresses of manufacturers of looms to make towels, tablecloths, handkerchiefs, etc.

**Tin Signs.**—Athens Hide Co., 786 Broad St., Athens, Ga.—Tin (advertising) tree signs.

**Traction Engine.**—George J. Adams, 39 South St., New York.—Prices on 25-horsepower second-hand traction engine.

**Vehicles.**—H. V. Dickerson, Salisbury, Md.—Correspondence with manufacturers of vehicles.

**Water Meters.**—City of Fayetteville, Ark., will invite bids on about 1000 water meters. Address H. Sour, in charge of water-works after April 1.

**Water-works.**—City of Rosenberg, Tex., H. A. Meyers, Mayor.—Prices on complete water-works plant to cost \$12,000 to \$15,000.

**Well-drilling Machinery.**—P. B. M. Oil Co., Ray McGreer, secretary, Oklahoma City, Okla.—Prices on driller.

**Wheel Scrapers.**—James Cain, Park St., Elkins, W. Va.—Two or more second-hand wheel scrapers for moving dirt.

**Wire Rope.**—George J. Adams, 39 South St., New York.—Prices on seven-eighths and one-inch second-hand wire rope.

**Woodworking Machinery.**—High Point Furniture Co., High Point, N. C.—Veneer press, 36x72.

FOR the benefit of business concerns, engineers, contractors, machinery manufacturers, dealers and others who find it profitable to follow up daily the industrial, commercial, railroad and financial development of the South and Southwest as published in this Construction Department,

## We issue every Business Day in the Year THE DAILY BULLETIN

The construction news as published in the Daily Bulletin is invaluable to all business people who want to keep in daily touch with the organization of business enterprises of all kinds throughout the whole South. Unlimited possibilities for the creation of business, for securing contract work, for the sale of machinery and supplies of all kinds, for bond buyers and others, are to be found through a close following up of the news in the Daily Bulletin.

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**Pipe Organ.**—R. M. Brant, chairman building committee, Hope, Ark., wants pipe organ for installation in church building. (Recently mentioned.)

**Piping.**—Board of Fire Commissioners, Fire Department, Baltimore, Md.—Proposals addressed to Board of Awards received by City Register at his office, City Hall, until April 9 for furnishing Fire Department and installing in pumping station piping for boiler; specifications furnished upon application to secretary of Fire Department; certified check for \$500; P. W. Wilkinson, secretary.

**Pump.**—State Convict Department, Tuscaloosa, Ala.—Prices on 500 gallons per minute capacity triplex single-acting pump, direct connected to 550-volt three-phase 60-cycle motor, with all accessories; specifications at office of Edgar B. Kay, chief engineer, Tuscaloosa.

**Pumps.**—J. A. Willis, Key West, Fla.—Prices on pumps.

**Rails.**—Sabel Bros., Jacksonville, Fla.—Prices on five miles 35-pound and 10 miles 60-pound relaying steel rail.

**Rails.**—Fort Green Lumber & Crate Co., Fort Green, Fla.—One mile 30-pound relay rail, with fastenings.

**Rails.**—Solon Jacobs & Co., 601 Woodward Bldg., Birmingham, Ala.—200 to 250 tons strictly No. 1 30-pound relaying rail.

**Rails.**—See Scrap Iron, etc.

**Reservoir.**—Proposals for construction of reinforced concrete reservoir at city pumping station received by water and gas committee of City Council, City Hall, Pensacola, Fla., until April 22; work consists of rein-

forced and endorsed "Proposals for Building Section of State Highway in Caroline County," upon or along Denton-Willow Pond road, between Denton and Willow Pond, for distance of about 1.63 miles, including one large drawbridge, received by Commissioners at their office, Denton, Md., until April 15; bids upon blank forms obtainable of State Roads Commission at its office, 554 N. Howard St., Baltimore, Md.; must give prices proposed both in writing and in figures, and must be signed by bidder with his address; certified check for \$300; plans can be seen and forms of specification and contract may be obtained at office of State Roads Commission, Baltimore, Md.; W. H. Anderson, clerk.

**Road Construction.**—Proposals received until April 10 by Marion County Court at Fairmont, W. Va., for construction of 32.7 miles of road, including grading, etc., in Mannington district, according to plans and specifications by J. Russell Wilson, civil engineer, Washington, Pa.; plans and specifications in offices of engineer, National Bank of Mannington Bldg., Mannington, W. Va., and 163 S. Main St., Washington, Pa., and of John F. Phillips, County Clerk; certified check 2 per cent. of bid.

**Road Construction.**—Proposals addressed to Highways Commission of Baltimore county and endorsed "Proposals for Building a Section of State-Aid Highway in Baltimore County," upon or along Falls Rd., between Beaver Dam Run north for about 50 miles, will be received by Highways Commission, E. Stanton Bosley, secretary, at office, Towson, Md., until April 17; bids on forms obtainable at office of State Roads Commission, 534 N. Howard St., Baltimore, Md.,

# FINANCIAL NEWS

The MANUFACTURERS RECORD invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

## Review of the Baltimore Market.

Office MANUFACTURERS RECORD,

Baltimore, Md., April 2.

The Baltimore stock market during the past week was generally without feature until the last day or two, when there was a decided improvement in United Railways stock and notes, due to encouraging reports as to the prospects of the company. In the trading United Railways common sold from 23 to 27; do. income bonds, 62½ to 63½; do. funding 5s, 87½ to 87; do. notes, 99½ to 107; do. 4s, 83½ to 84½; Consolidated Gas, Electric Light & Power common, 108 to 107½; do. 4½s, 86 to 87; do. notes, 99½; Consolidated Gas 5s, 106 to 106½; do. 4½s, 94½; Seaboard Air Line common, 19 to 20½, with last sale at 20; do. preferred, 44½ to 45½; do. adjusted 5s, 72½; Mt. Vernon-Woodberry Cotton Duck 5s, 74 to 74½; G.-B.-S. Brewing common, 2½; do. 4s, 44 to 44½.

Bank stock sold as follows: Bank of Baltimore, 181 to 188, reacting to 184; Merchants & Mechanics, 33½; National City, 111; Bank of Commerce, 31½; Exchange, 162.

Fidelity & Deposit sold from 144 to 155½; do. rights, 8½ to 9½; Maryland Casualty, 102 to 101½; Mercantile Trust, 159 to 161½; United States Fidelity & Guaranty, 199.

Other securities were traded in thus: Central Railway (Baltimore) 5s, 104½; City & Suburban (Washington) 5s, 102½ to 103; Baltimore City 4s, 1951, 96½ to 96; do. 3½s, 1980, 83; do. do. 1940, 93; do. do. 1930, 93½; do. 5s, 1916, 102½; do. 4s, 1961, 96; Fairmont & Clarksburg Traction 5s, 100½ to 100¾; Georgia Southern & Florida 5s, 104 to 104½; Houston Oil common, trust certificates, 19½ to 21; do. preferred, trust certificates, 62 to 64½, reacting to 63½; do. dividend certificates, 81 to 80½; Milwaukee Refunding 4½s, 93; Baltimore Electric 5s, stamped, 97½ to 97½; Consolidation Coal, 99½ to 99¾; do. refunding 4½s, 91; do. do. 5s, 90¼ to 90; do. notes, 99¼ to 100¼; Chicago Railways 5s, 90 to 98¾; Georgia & Alabama Consolidated 5s, 103½; New Orleans Great Northern 5s, 68 to 69; Northern Central Railway stock, 121¼ to 121½; Pennsylvania Water & Power common, 63 to 65; do. 5s, 91 to 90¾; Carolina Central 4s, 91½; Maryland Electric 5s, 97; City & Suburban (Baltimore) 5s, 103½; Baltimore Traction 5s, 104½; Lake Roland Elevated 5s, 105½; Maryland & Pennsylvania incomes, 69; Baltimore Traction (North Baltimore Division) 5s, 106¼; Cigar Machine Corporation of America, 1¾; Florida Southern 4s, 89; New Orleans, Mobile & Chicago 5s, 80 to 79; Atlantic Coast Line Consolidated 4s, 90¼ to 91; Maryland Electric 5s, 97½ to 98; Minneapolis & St. Paul joint 5s, 102; Washington, Baltimore & Annapolis 5s, 88; Georgia, Carolina & Northern 5s, 103½ to 103¾; Alabama Consolidated Coal & Iron 5s, 77; Arundel Sand & Gravel Co. 6s, 98½; Baltimore, Catonsville & Ellicott Mills 5s, 101½; Charleston Consolidated Electric 5s, 96½; Metropolitan (Washington) 5s, 105; Jamison Coal & Coke (George's Creek) 5s, 91¾ to 92¾; Norfolk Railway & Light 5s, 99¾; Baltimore, Spar-

rows Point & Chesapeake 4½s, 95½; Wilmington & Weldon 5s, 107.

## SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended April 2, 1913.

Railroad Stocks.	Par.	Bid.	Asked.
Atlantic Coast Line.....	100	123	...
At. Coast of Conn.....	100	247½	250
Georgia Southern & Florida.....	100	...	30
Seaboard Com.....	100	20½	21
Seaboard Pfd.....	100	...	...
United Rys. & Electric Co.....	50	26½	27

Bank Stocks.	Par.	Bid.	Asked.
Bank of Baltimore.....	100	184	186
Bank of Commerce.....	100	...	32½
Exchange.....	100	161	163
Farmers & Merchants.....	40	48¾	49½
German.....	100	108	...
Marine.....	30	42½	...
Merchants-Mechanics.....	100	33½	35½
National City.....	100	109	110½
Union.....	100	137½	142

Trust, Fidelity and Casualty Stocks.	Par.	Bid.	Asked.
Baltimore Trust.....	100	154	...
Colonial Trust.....	50	29	...
Continental Trust.....	100	...	214
Fidelity & Deposit.....	50	155	...
Fidelity Trust.....	100	...	260
Maryland Casualty.....	25	101¾	...
Mutual Trust.....	100	...	106
Merc. Trust & Dep.....	50	161	...
U. S. Fidelity & Guaranty.....	100	198	205

Miscellaneous Stocks.	Par.	Bid.	Asked.
Baltimore Electric Pfd.....	50	44	45
Con. Gas, Elec. Lt. & P. Com.....	100	110	118
Con. Gas, Elec. Lt. & P. Pfd.....	100	112	118
Consolidation Coal.....	100	99½	100
G.-B.-S. Brewing Co.....	100	...	3½
Mer. & Min. Trans. Co. V. T.....	100	...	65½

Railroad Bonds.	Par.	Bid.	Asked.
Atlanta & Birmingham 4s.....	84½	...	...
Alabama Midland 5s.....	107	...	...
Atlantic Coast 1st 4s.....	90	91	...
At. Coast Conv. Deben. 4s.....	96½	98	...
At. Coast S. C. 4s.....	94	...	...
Carolina Central 4s.....	91½	91¾	...
Charleston & West. Car. 5s.....	105½	...	...
Coal & Iron Railway 5s.....	100	100¼	...
Col. & Green 1st 5s.....	104	...	...
Florida Southern 4s.....	104	...	...
Georgia & Alabama 5s.....	104	...	...
Ga. Car. & North 1st 5s.....	103½	103¾	...
Georgia Pacific 1st 6s.....	109	...	...
Ga. South. & Fla. 1st 5s.....	104	104½	...
Macon, Dublin & Sav. 5s.....	97½	98½	...
New Orleans Gt. Nor. 5s.....	68	68½	...
New Orleans, M. & C. 5s.....	78½	79½	...
Raleigh & Gaston 5s.....	106	107½	...
Richmond & Danville Deben. 5s.....	102½	...	...
Seaboard 4s, Stamped.....	84½	85½	...
Seaboard Adjustment 5s.....	102	73½	...
Seaboard & Roanoke 5s.....	100	102½	...
Silver Spgs., Ocala & G. 4s.....	95½	...	...
South Bound 5s.....	106½	...	...
Suffolk & Carolina 5s.....	104	...	...
Virginia Midland 5th 5s.....	105	...	...
Wash., Balto. & Annap. 5s.....	87½	88½	...
Western N. C. Con. 6s.....	100¾	101½	...
Wilmington & Weldon 5s.....	105½	107½	...

Street Railway Bonds.	Par.	Bid.	Asked.
Anacostia & Potomac 5s.....	97½	100	...
Anacostia & Potomac 5s, Gtd.....	100	103	...
Atlanta Con. Street Railway 5s.....	103¾	104¼	...
Augusta Railway & Electric 5s.....	102	...	...
Balto., Sp. Pt. & C. 4½s.....	95	96	...
Baltimore Traction (N. B.) 5s.....	106½	106½	...
Central Railway (Balto.) Con. 5s.....	106½	...	...
Charleston City Railway 5s.....	102½	103¼	...
Charleston Con. Electric 5s.....	96	97	...
City & Suburban 5s (Wash.).....	102½	102½	...
Danville Traction 5s.....	90	94½	...
Fairmont & Clarksburg Trac. 5s.....	100½	101	...
Lake Roland Elevated 5s.....	106½	...	...
Lexington Railway 1st 5s.....	92	95	...
Maryland Electric Railways 5s.....	97½	98	...
Metropolitan 5s (Wash.).....	104½	...	...
Norfolk & Portsmouth Trac. 5s.....	91½	...	...
Norfolk Railway & Light 5s.....	99½	100	...
Norfolk Street Railway 5s.....	102½	106½	...
Norfolk & Atlantic Ter. 5s.....	93½	95	...
United Railways 1st 4s.....	83½	84	...
United Railways Income 4s.....	83½	84	...
United Railways Funding 5s.....	86½	87¼	...
United Railways Notes.....	106¾	107	...

Miscellaneous Bonds.	Par.	Bid.	Asked.
Ala. Con. Coal & Iron 5s.....	79	85	...
Baltimore Electric 5s, Stp.....	97½	...	...
Consolidated Gas 5s.....	106	107½	...
Consolidated Gas 4½s.....	94½	94½	...
Con. Gas, Elec. Lt. & P. 4½s.....	87	87½	...
Con. Gas, Elec. Lt. & P. Notes.....	99½	99½	...
Consolidation Coal Ref. 4½s.....	90	93	...
Consolidation Coal Ref. 5s.....	89¾	...	...
G.-B.-S. Brewing 1st 4s.....	44	44½	...
G.-B.-S. Brewing Income 5s.....	44	45	...
Jamison Coal & Coke Co.....	91¾	93	...
Mt. Vernon-Woodby Cot. Duck 5s.....	74¼	74½	...
Penna. Water & Power 5s.....	90½	90¾	...
United Elec. Lt. & P. 4½s.....	90½	92½	...

## SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending March 31.

	Bid.	Asked.
Abbeville Cotton Mills (S. C.).....	100	...
Aiken Mfg. Co. (S. C.).....	85	...
American Spinning Co. (S. C.).....	102	...
Anderson Cotton Mills (S. C.).....	83½	84
Anderson Cot. Mills (S. C.) Pfd.....	100	...
Arcadia Mills (S. C.).....	90	...
Arkwright Cotton Mills (S. C.).....	99	100
Belton Mills (S. C.).....	100	110
Brandon Mills (S. C.).....	80	...
Brogan Mills (S. C.).....	60	...
Chiquola Mfg. Co. (S. C.).....	100	...
Clinton Mfg. Co. (S. C.) Pfd.....	99	...
Clinton Cotton Mills (S. C.).....	90	...
Courtney Mfg. Co. (S. C.).....	93	...
Dallas Mfg. Co. (Ala.).....	99	...

D. E. Converse Co. (S. C.).....	75	...
Drayton Mills (S. C.).....	90	...
Eagle & Phenix Mills (Ga.).....	106	...
Enoree Cotton Mills (S. C.).....	163	176
Enoree Mfg. Co. (S. C.) Pfd.....	95	63
Enoree Mfg. Co. (S. C.).....	100	...
Gaffney Mfg. Co. (S. C.).....	65	70
Gainesville Cotton Mills (Ga.).....	72	80
Glenwood Cotton Mills (S. C.).....	100	...
Graniteville Mfg. Co. (S. C.).....	135	145
Greenwood Cotton Mills (S. C.).....	57	60
Grendel Mills (S. C.).....	90	100
Hartsville Cotton Mill (S. C.).....	175	...
Henrietta Mills (N. C.).....	160	175
Inman Mills (S. C.).....	100	100
King Mfg. Co. J. P. (Ga.).....	80	85
Lancaster Cotton Mills (S. C.).....	130	...
Lancaster Cot. Mills (S. C.) Pfd.....	97	100
Lancaster Mfg. Co. (S. C.).....	75	...
Laurens Mills (S. C.).....	115	...
Limestone Mills (S. C.).....	155	...
Lockhart Mills (S. C.).....	50	...
Lockhart Mills (S. C.) Pfd.....	95	...
Loray Cotton Mills (N. C.) Pfd.....	90	...
Mariboro Cotton Mills (S. C.).....	70	...
Mills Mfg. Co. (S. C.).....	90	102
Molokoh Mfg. Co. (S. C.).....	90	...
Monarch Cotton Mills (S. C.).....	110	...
Newberry Cotton Mills (S. C.).....	125	130
Ninety-Six Cotton Mills (S. C.).....	130	150
Norris Cotton Mills (S. C.).....	115	...
Orr Cotton Mills (S. C.).....	90	93
Pacolet Mfg. Co. (S. C.).....	99	...
Pacolet Mfg. Co. (S. C.) Pfd.....	95	100
Parker Common.....	20	...
Parker Pfd.....	63	...
Pelee Mfg. Co. (S. C.).....	120	...
Poe Mfg. Co. F. W. (S. C.).....	98	...
Saxon Mills (S. C.).....	120	130
Spartan Mills (S. C.).....	110	125
Trion Mfg. Co. (Ga.).....	130	...
Tucapau Mills (S. C.).....	310	350
Union-Buffalo (S. C.) 1st Pfd.....	50	...
Union-Buffalo (S. C.) 2d Pfd.....	5	...
Victor Mfg. Co. (S. C.).....	110	115
Warren Mfg. Co. (S. C.).....	80	90
Warren Mfg. Co. (S. C.) Pfd.....	100	105
Washington Mills (Va.).....	28	...
Washington Mills (Va.) Pfd.....	106	110
Watts Mills (S. C.).....	50	...
Whitney Mfg. Co. (S. C.).....	105	...
Williamson Mills (S. C.).....	130	...
Wiscasset Mills (N. C.).....	135	...
Woodside Cotton Mills (S. C.).....	95	100

## FINANCIAL CORPORATIONS.

Ala., Fayette.—The Fayette County Bank has made application to convert into the First National Bank of Fayette; capital \$50,000.

Ark., Tontitown.—The Bank of Tontitown incorporated; capital \$10,000. Directors: J. G. Weber, president; Kib Terry, vice-president; L. J. Pane, cashier; Rayburn Peay and A. P. Murphy. Business began April 1.

D. C., Washington.—The Security Savings and Commercial Bank is chartered; capital \$100,000; surplus \$25,000; directors, Julius L. Peysor, George R. Perkins, Fred McKee, A. D. Prince, Louis A. Dent, William H. Linkins and Charles W. Darr. Business is to begin in about 30 days.

Fla., Fellsmere.—The State Bank of Fellsmere will make application for charter; capital \$25,000; Charles H. Piffard, president; R. A. Conkling, vice-president; V. J. Hadin, second vice-president; R. L. James, cashier; E. Nelson Fell, Charles H. Piffard, R. A. Conkling, V. J. Hadin, Fred W. Kettle, directors.

Fla., Kissimmee.—The Consolidated Title Co. incorporated; capital \$50,000; incorporators, C. W. Ward, A. E. Donegan and Lewis O'Bryan; officers, P. A. Vans Agnew, president; Lewis O'Bryan, vice-president and general manager; W. B. Crawford, secretary and treasurer. Business is to begin April 15. It was at first proposed to call the company the South Florida Title Co.

Fla., Tampa.—The Abstract & Title Guaranty Co., capital \$50,000, is to be incorporated. Among those interested are T. M. Jones, H. D. Palmer, W. H. Beckwith, George C. Warren, W. K. Zawadski, Jr., and D. J. Shaw. Temporary officers: H. D. Palmer, president; D. J. Shaw, secretary, and W. K. Zawadski, Jr., treasurer.

Fla., Ybor City, P. O. Tampa.—The Latin American Bank is being organized with \$50,000 capital, and notice of application for letters patent are published; petitioners, J. M. Harvey, W. V. Cole, J. C. Salas, S. V. M. Ybor, L. S. Sumner and Gaetano Ferlita. Temporary officers are: President, J. M. Harvey; vice-president, W. V. Cole; cashier, J. C. Salas; directors, J. M. Harvey, J. C. Salas, S. V. M. Ybor, L. S. Sumner and G. Ferlita. Business is expected to begin in May.

Ga., Atlanta.—The Standard Life Insurance Co. has begun business; H. E. Perry, president; Wm. Driskell, vice-president; Harry H. Pace, secretary; H. C. Dugan, assistant secretary; J. O. Ross, treasurer; Thomas H. Slater, M.D., medical director. The company is said to be organized by negroes to write insurance among members of their race.

Ga., Rome.—The State Bank of Rome is chartered; capital \$175,000. Directors:

Felix Corput, president; J. H. O'Neill and D. W. Curry, vice-presidents; S. F. Magruder, cashier; F. S. Barron, W. J. Griffin, O. L. Stamps and H. H. Arrington. This is a conversion of the American Bank & Trust Co.

Ky., Pineville.—The Continental Bank, capital \$50,000, is being organized by White L. Moss, Judge M. J. Moss, P. J. Galloway and Charles C. Chandler of the Middlesboro Home Telephone Co.

Ky., Whitesburg.—The Whitesburg National Bank is the name of the new bank being organized with \$50,000 capital by Dr. J. D. Fitzpatrick, John C. Mayo and others.

La., DeRidder.—The Lumberman's State Bank & Trust Co. is organized with \$100,000 capital. It is said that the old Lumberman's State Bank is to be merged into the new institution. The new board of directors will be Geo. C. Shipper, C. C. Davis, J. S. Roberts, C. H. Dodd, J. W. Tooke, J. W. Sanders, W. G. Strange, L. O. Collins, B. H. Smith of Longville, J. H. Morrison of Carson, H. D. Dear of Fullerton, F. M. Roberts, E. F. Pressley, C. E. Tooke, F. W. Raggio and F. E. Powell. Geo. C. Shipper will be president; J. W. Tooke, active vice-president; C. C. Davis, J. H. Morrison, W. G. Strange, vice-presidents; C. E. Tooke, cashier, and Clyde Nichols, assistant cashier.

La., New Orleans.—The Reliance Homestead Association incorporated; authorized capital \$5,000,000. James L. Wright, president; T. Fitzwilliam, first vice-president; A. L. Patterson, second vice-president; Geo. H. Penn, secretary, and G. H. Meyer, treasurer. Business is to begin May 1.

La., New Orleans.—The Louisiana Title & Mortgage Co. will make application for charter. Organizers: Felix J. Dreyfus, Whitney-Central National Bank, German-American Savings Bank, Interstate Trust & Banking Co., New Orleans Real Estate, Mortgage & Securities Co.; Dr. P. H. Saunders, M. P. Bouslog and others.

La., New Orleans.—The New Orleans Real Estate, Mortgage and Securities Co. has changed its name to the Mortgage Securities Co. P. H. Saunders, president; Levering Moore, active vice-president; Louis P. Rice and Herman Weil, vice-presidents; A. Breton, treasurer; C. G. Robinson, secretary; F. J. Dreyfus, notary, and Charles P. Fenner, attorney.

Md., Frederick.—The Frederick Trust Co. has made application for charter; capital \$100,000; incorporators, D. Chester Kemp, Frederick W. Oberlander, Claggett E. Ramsburg, Walter B. Leatherman and Reno S. Harp, Frederick; J. Stewart Annan, Emmitsburg; David Cramer, Walkersville; George W. Fawley, Jefferson; William B. Cutshall and Albert W. Ecker, Woodsboro.

Mo., Lamonte.—The Farmers' Bank of Lamonte is organized with \$10,000 capital. Directors: J. M. Baldwin, president; J. T. Buckley, vice-president, and B. B. Sec, cashier; Dr. H. C. Mitchell, J. V. Stirlen, B. F. Parker and J. W. Johnston.

Miss., Woodville.—The Commercial Bank chartered; capital \$30,000; L. T. Lewis, president; J. B. Sterling, vice-president; cashier not yet named; directors, W. W. Wren, L. T. Lewis, J. B. Sterling, D. H. Wallace, Abe Cohen and C. W. McKelthen. Business is to begin April 15.

N. C., Charlotte.—The Realty Trust Co. of Charlotte has been granted a charter; capital \$125,000. Organizers: C. B. Bryant, W. C. Wilkinson and others.

N. C., Fletcher.—The Bank of Fletcher is reported organized with authorized capital of \$15,000 by A. H. Miller, E. A. Wood and L. G. Miller.

N. C., Warsaw.—The Citizens' Bank, authorized capital \$25,000, is organized by W. L. Hill, G. B. D. Parker and others.

N. C., Wilmington.—The Ocean City Corporation of Wilmington is chartered with authorized capital of \$50,000 by W. G. Hall, J. R. Stephenson and others for the purpose of doing a real estate and insurance and brokerage business.

Okla., Blair.—The First National Bank of Blair, capital \$25,000, has made application to organize; R. R. Jackson, correspondent, of Blair; organizers, W. R. Vaughan, J. D. Tinsley, H. Mathewson and L. S. Noble. This succeeds the Citizens' State Bank.

Okla., Henryetta.—The Guaranty State Bank chartered; capital \$25,000; J. E. Whitten, president; J. J. Brotherton and Chas.

[For Additional Financial News, See Pages 88 and 89.]



**Merchants-Mechanics National Bank**

South and Water Sts., BALTIMORE, MD.  
**DOUGLAS H. THOMAS, President.**  
**JNO. B. RAMSAY, V.-P. and Chm. Bd. of Dir.**  
**WM. INGLE, Vice-President.**  
**JOHN B. H. DUNN, Cashier.**  
 Capital \$2,000,000 Deposits \$21,670,000  
 Surplus and Profits \$2,175,000  
 Accounts of Banks, Bankers, Corporations and Individuals solicited.  
 We invite correspondence.

**The First National Bank**

OF KEY WEST, FLA.  
 United States Depository and Disbursing Agent  
 Capital - - - \$100,000  
 Surplus and Undivided Profits - - 40,000  
 A general banking business transacted.  
 Special attention given to collections.

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 Municipal and Corporation  
 Cotton Mill Stock a Specialty  
**WM. S. GLENN, Broker, SPARTANBURG, S. C.**

**JOHN NUVEEN & CO.**

First National Bank Building  
 CHICAGO  
 We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.  
 Write us if you have bonds for sale.

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 INCORPORATING under broad, liberal, safe and stable Delaware laws. A fully equipped department for proper organization and registration of corporations.  
**BANKING AND TRUST** department gives special attention to out of town customers' accounts.  
**TITLE DEPARTMENT** examines and guarantees title to realty throughout Delaware.  
**REALTY DEPARTMENT** has sites for manufacturing industries. Modern Methods of management of property.  
**EDWARD T. CANBY, President.**  
**J. ERNEST SMITH, V.-Pres. and Gen. Counsel.**  
**WM. G. TAYLOR, Treasurer.**  
**HARRY W. DAVIS, Secretary.**  
**W. W. PUSEY, 2d Title and Real Estate Officer.**

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**ADVERTISEMENT FOR BIDS**

THE CITY DEVELOPMENT CO.

Columbia, S. C., March 31, 1913.  
 Sealed proposals will be received by M. Goode Homes, Consulting Engineer for The City Development Company of Columbia, S. C., until 11 A. M. Saturday, April 12, 1913, for furnishing the following materials and doing the work as set forth herein:

**Materials to be furnished:**

2000 barrels of Portland Cement.  
 2000 cubic yards of crushed stone (size, to pass a 2-inch ring and be retained on a 1/2-inch ring).  
 11,000 feet of 4-inch drain tile (flush joints).  
 1000 feet of 6-inch drain tile (bell and spigot joints).  
 1000 feet of 12-inch drain tile (bell and spigot joints).  
 30 4-inch by 12-inch Y's.

**Reinforcing steel rods as follows:**

No. of Pieces.	Lengths.	Cross-Section Areas.	No. of Pieces.	Lengths.	Cross-Section Areas.
1,534	12 feet	0.4 s. l.	120	15 feet	0.79 s. l.
1,150	13 feet	0.4 s. l.	120	9 feet	0.4 s. l.
1,350	7 feet	0.4 s. l.	120	8 feet	0.4 s. l.
1,350	8 feet	0.4 s. l.	400	5 feet	0.4 s. l.
517	13 feet	0.79 s. l.	200	14 feet	0.4 s. l.
240	5 feet	0.79 s. l.	31,280	lineal feet of 3/4-inch rods.	

All prices to be f. o. b. Columbia, S. C.

**Work to be done:**

Hauling 1000 cubic yards of sand out of that portion of Rocky Branch between Green street and the Southern Railway, and placing same along a line parallel to that same portion of Rocky Branch. Average length of haul, 200 feet. The right is reserved to reject any or all proposals.

For further information apply to

**M. GOODE HOMES,**  
 Columbia, S. C.

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**OLD DOMINION LAND COMPANY**  
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H. B. Wilcox, Pres. Blanchard Randall, V.-Pres.  
 Wm. S. Hammond, Cashier.  
 Saml W. Tschudi, A. Cash. R. E. Bolling, A. Cash.

**The First National Bank**

17 South St., Baltimore, Md.  
 Capital - - - \$1,000,000  
 Surplus and Net Profits - - 400,000  
 Deposits - - - 6,500,000

Especially well equipped to handle the business of Southern Banks, Corporations, and Individuals and Manufacturers. We cordially invite correspondence and interviews.

**The National Exchange Bank**

OF BALTIMORE, MD.  
 Hopkins Place, German and Liberty Streets  
 Capital, \$1,000,000  
 July 15th, 1908, Surplus and Profits, \$671,631.60  
**OFFICERS**  
**WALDO NEWCOMER, President.**  
**SUMMERFIELD BALDWIN, Vice-Pres.**  
**R. VINTON LANSDALE, Cashier.**  
**C. G. MORGAN, Asst. Cashier.**  
 Accounts of Mercantile Firms, Corporations, Banks Bankers and Individuals Invited.

**SURETY BONDS****Fidelity & Deposit Co.**

OF MARYLAND

Home Office, - - BALTIMORE, MD.

Total Assets Dec. 31, 1911,  
 \$8,133,000.57

Pioneer Surety Co. of the South.  
 Becomes Surety on bonds of every description.

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 Harry Nicodemus, Edwin Warfield,  
 Sec'y and Treas. President

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Specialists in Steam R. R. Securities  
 Members New York Stock Exchange

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**Electric Bond and Share Company**

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71 Broadway

New York

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CAPITAL AND SURPLUS \$11,000,000

Finances enterprises possessing tangible resources but lacking adequate banking accommodation.

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 PHILADELPHIA Lafayette Bldg.  
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From Municipalities and Contractors. Write us if you have entire bond issues for sale.  
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 CINCINNATI, OHIO

**WE BUY**

CITY, COUNTY, SCHOOL and DRAINAGE

**BONDS**

From Municipalities and Contractors.

**The Tillotson & Wolcott Co.**  
 CLEVELAND, OHIO

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**BANK ENVELOPES**

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Lithographing, Printing, Envelopes  
 Blank Book Makers, Book Binding  
 Letter Heads, Office Supplies  
 Steel Die Work

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B. Law, vice-presidents; Edwin J. Kersting, cashier. Business began April 2.

Okl., Oklahoma City.—The Southern Securities Co. is chartered; capital \$5000. Incorporators: J. E. Campbell, J. D. Campbell, J. D. Ferguson and J. M. Tucker.

S. C., Columbia.—The Homestead Bank has elected the following directors: President, Robert Moorman; vice-president and general manager, James A. Hoyt; second vice-president, W. M. Perry; Christie Benet, F. H. McMaster, R. J. Blalock, A. B. Langley, H. E. Thompson, Will Evans and W. S. Reamer. Business is expected to begin about April 15.

S. C., Spartanburg.—Chartered; The South Carolina Mortgage Co.; capital \$50,000. Officers: H. B. Carlisle, president; A. M. Law, vice-president; Charles P. Wolford, secretary and treasurer.

Tenn., Chattanooga.—The Realty & Trust Co., capital \$200,000, which will have temporary offices in the James Bldg., has elected J. S. Rodriguez, president; A. W. Chambliss, vice-president, and E. S. Newton, secretary and treasurer.

Tex., Altoga.—The Altoga State Bank, which succeeds the Bank of Altoga, is chartered; capital \$10,000; surplus \$500. Directors: Geo. W. Riddle, president; J. T. Mantooch, vice-president; W. T. Dunn, cashier; W. H. Dunn, A. H. Womble, F. H. Anderson and W. Whitson. Business began March 22.

Tex., Big Sandy.—The Farmers State Bank chartered; capital \$15,000; J. M. Mings, president; C. M. Smith and Jas. A. Vanhorn, vice-presidents; L. T. Mings, cashier. Business is said to have begun.

Tex., Blanket.—The First State Bank is being organized and business is expected to begin by June 1.

Tex., Dallas.—The Southern States Audit Co. is chartered; capital \$15,000; incorporators, Gordon Lyle, K. F. Butler and A. G. Stockton.

Tex., Franklin.—A new State bank is reported being organized with \$30,000 capital.

Tex., Freeport.—The Freeport National Bank, capital \$50,000, surplus \$12,500, expects to begin business in about 60 days; organizers, F. S. Hastings and W. T. Andrews, Stanford; C. A. Jones, Spur; W. T. Andrews, E. C. Hastings, Freeport, and George C. Morris, Gainesville, Tex.

Tex., Richmond.—The First National Bank of Richmond chartered; capital \$50,000; J. A. Farmer, president; A. M. Holmes, first vice-president; E. M. Huggins, second vice-president; E. G. Wenendorf, cashier; J. W. E. Stighen, assistant cashier. Business is to begin in about 10 days.

Tex., Temple.—The Temple Realty & Investment Co., capital \$10,000, has been incorporated by J. K. Campbell, J. C. Mitchell, W. J. Bassett, H. W. Mesner, H. K. Orgain.

Tex., Trenton.—The First State Guaranty Bank, capital \$25,000, is being organized with C. Wooley, president; R. M. McCollom, first vice-president; W. M. Johns, second vice-president; A. P. Birdsong, cashier; Robert Miller, T. E. Dodson, J. F. Hollis, S. W. Brown, C. E. Wooley, R. M. McCollom, W. M. Jones and A. P. Birdsong, directors. The bank will be opened about July 1.

Tex., Robstown.—The Guaranty State Bank of Robstown is chartered; capital \$10,000; incorporators, W. R. Wasson, W. T. Thompson, Jr., and E. O. Smith.

Tex., Sealy.—The Farmers' National Bank is approved; capital \$25,000; organizers, W. F. Vlerick, E. Newman, M. Sailer, A. Kveton and W. T. Kerr; correspondent, E. L. Galila of Sealy.

Tex., Placedo.—The Placedo State Bank chartered; capital \$10,000; directors, F. S. Buhler, president; L. B. Manry, cashier; J. F. Welder, J. W. Henderson, J. O. West, J. H. King and Frank W. Wick. Business is expected to begin within 60 days.

Tex., Victoria.—The Victoria National Bank, to succeed the First National Bank of Victoria, is approved; capital \$500,000; C. S. E. Holland, correspondent, Victoria, Tex.; J. F. Welder, A. M. McFaddin, J. J. Welder and F. S. Buhler, directors. Officers: James F. Welder, president; C. S. E. Holland vice-president; F. S. Buhler, cashier, and C. C. Zirjacks, assistant cashier.

Va., Nickelsville.—The Farmers' Exchange Bank is incorporated; capital \$15,000. J. F. Sutton, president; C. P. Bond, vice-president; J. A. Bond, secretary and cashier.

Va., Union Level.—The Bank of Union Level is chartered; capital \$10,000 to \$20,000; L. H. Hayes, president; C. P. Jones, vice-president and secretary, both of Union Level; F. C. Dedinger, Boydton. Directors: A. L. Jenkins, G. C. Herndon, A. H. Ferguson of Union Level; C. P. Johnson and L. N. Buchanan, Baskerville. Business is to begin April 7.

#### NEW SECURITIES.

Ala., Aliceville.—W. D. Boyles, Mayor, will sell at private sale the \$10,000 of 6 per cent. 10-year water-works bonds voted March 17, 1913; denomination \$500; dated May 1, 1913; maturity May 1, 1923.

Ala., Cullman.—The Commissioners of Cullman county will meet early in April to ask bids for \$200,000 of 5 per cent. bonds voted March 17 for building pike roads; denomination \$1000. Address Hon. R. I. Burke, Probate Judge.

Ala., Fort Payne.—A special election is to be held May 5 to vote on \$10,000 of school bonds. If the election carries, the bonds will be offered for sale the first part of May. H. B. Brock is Mayor.

Ala., Hurtsboro.—Bids will be received until noon April 10 for \$14,000 of 5 per cent.

30-year water, light and sanitary sewerage bonds; denomination \$500; dated May 1, 1913; maturity May 1, 1933. Wheeler Williams is Mayor.

Ala., Mobile.—The City Commissioners are reported to have practically authorized the issuing of \$150,000 of school-improvement bonds.

Ark., Sulphur Springs.—W. A. Burke, Bentonville, Ark., has purchased \$25,000 of 6 per cent. 20-year water and light bonds; denomination \$500; dated March 17, 1913. C. J. Williams is chairman of the Board. C. E. Willis is Mayor.

Fla., Arcadia.—An election is to be called to vote on school bonds.

Fla., Dade City.—The election to vote on \$150,000 of Pasco county road bonds is reported postponed from March 18 to April 30.

Fla., Gulfport.—The \$10,000 of municipal improvement bonds recently purchased by Hanchett Bond Co., Chicago, at par and accrued interest are 10-year 8 per cent; denomination \$100. S. J. Webb is City Clerk.

Fla., Miami.—The election to vote on \$25,000 of sanitation, \$30,000 of fire department, \$30,000 of paving, \$10,000 of hospital, \$5000 of park and dock and \$40,000 of sewerage bonds will be held May 13. J. W. Watson is Mayor and W. B. Moore, City Clerk.

Fla., Milton.—Defeated: Bonds for bridge across Escambia River.

Fla., Orland.—All bids received March 27 for the \$140,000 of 5 per cent. sewerage bonds are reported rejected. Address Bond Trustees.

Fla., Pensacola.—Bids will be received until 10 A. M. April 29 for \$101,500 of 4½ per cent. Escambia county bonds; denomination \$500. James MacGibbon is clerk Board of County Commissioners.

Fla., Tallahassee.—A bill is to be introduced in the Florida Legislature providing for the issuing of \$50,000,000 of State road bonds.

Fla., Tampa.—An election will probably be held in Hillsborough county to vote on \$500,000 of highway bonds.

Fla., West Palm Beach.—The New First National Bank, Columbus, is reported to have been awarded \$85,000 of 5 per cent. 40-year bonds of road and bridge district No. 1, Palm Beach county.

Ga., Athens.—Voted: \$100,000 of school and \$75,000 of street-improvement bonds. J. W. Barnett is City Engineer.

Ga., Guyton.—April 15 an election is to be held to vote on \$10,000 of waterworks and \$5000 of electric-light 6 per cent. bonds; dated May 1, 1913; maturity May 1, 1923, to May 1, 1943; denomination \$1000. George F. Haywood is Mayor. If the bonds carry, bids will be asked at once.

Ga., Lyerly.—Election is called for April 5 to vote on \$10,000 of 5 per cent. school district bonds; denominations \$250, \$300 and \$450; maturity January 15, 1914 to 1943.

Ga., Savannah.—Plans are being made to refund \$217,000 of bonds maturing in July. The bonds will probably be of \$100 denomination.

Ga., Summerville.—Summerville School District, Chattooga county, has voted \$20,000 of bonds.

Ga., Vidalia.—April 5. It is reported, an election is to be held to vote on \$15,000 of water and light improvement and \$10,000 of city building bonds.

Ga., Zebulon.—An election will be held April 16 to vote on \$10,000 of water-works bonds.

Ga., Whigham.—April 18 an election is to be held to vote on \$6000 of electric-light and \$2000 of water-works bonds.

Ky., Corbin.—The First National Bank of Corbin has been awarded at par and interest \$31,500 of 5 per cent. water-works bonds.

La., Donaldsonville.—First road district, Ascension parish, has voted \$35,000 of 5 per cent. 20-year bonds, and arrangements are to be made immediately to issue them.

La., Gilliam.—\$12,000 of 5 per cent. 1-15-year improvement bonds of North Caddo Drainage District No. 1 will soon be offered.

Md., Betterton.—Bids were received until noon April 1 for \$6000 of 5 per cent. street, road and sewerage bonds. J. A. Bowman is secretary Commissioners of Betterton.

Md., Centerville.—Bids will be received

until noon April 15 for \$75,000 of 5 per cent. Queen Anne's county general improvement bonds; denomination \$1000; dated July 1, 1912. Address County Commissioners, E. John Merrick, Clerk.

Miss., Meridian.—Voted: \$300,000 of bonds as follows: \$150,000 for paying off indebtedness, \$100,000 for water-works, \$25,000 for street improvement, and \$25,000 for school purposes.

Mo., Columbia.—Local banks are reported to have purchased \$20,000 of bonds of Harg Special Road District, Boone county.

Mo., Joplin.—It is now stated that a special election will be held April 22 to vote on \$90,000 of municipal light-plant bonds. It is also stated that it is proposed to hold an election April 30 to vote on \$175,000 of park and boulevard bonds.

Mo., Kansas City.—Thomas C. Harrington, secretary Park Commissioners, received bids until 2 P. M. March 31 for \$117,268.09 of 6 per cent. park certificates; denomination \$1000; dated November 19, 1912; maturity June 30, 1913 to 1932.

Mo., Mexico.—Wm. R. Compton & Co., St. Louis, have purchased at par for \$25,000 of 6-20-year school district building bonds.

N. C., Charlotte.—Bids will be received until 11 A. M. April 28 for \$325,000 of 4½ per cent. 30-year funding and special improvement bonds; denomination \$1000; dated May 1, 1913; maturity May 1, 1943. W. M. Long is chairman Board of Commissioners of Mecklenburg County. W. M. Moore is clerk to the board. Further particulars will be found in the advertising columns.

N. C., Danbury.—An election is about to be held to vote on \$35,000 of 4 per cent. 30-year road bonds of Peters Creek township, Stokes county.

N. C., Germantown.—An election is soon to be held, it is reported, to vote on \$40,000 of 30-year Meadow township, Stokes county, road-improvement bonds.

N. C., Hendersonville.—The Legislature has authorized Henderson county to issue \$25,000 of road-improvement bonds. C. M. Pace is Clerk Superior Court.



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N. C., Huntersville.—Reported defeated: \$20,000 of school bonds.

N. C., Mount Airy.—April 17 an election is to be held to vote on \$30,000 of 5 per cent. road-improvement bonds. W. A. York is clerk Board of Commissioners, Scurry County.

N. C., Oxford.—Voted: \$20,000 of 5 per cent. school district bonds. Address W. Z. Mitchell.

N. C., Pineville.—Election will be held April 8 to vote on \$20,000 of Pineville school district building bonds.

N. C., Raleigh.—The Raleigh School Board is preparing to issue \$100,000 of bonds for erection of public school building for the Glenwood section.

N. C., Rutherfordton.—The election to vote on \$250,000 of Rutherford county road bonds will be held April 26. J. D. Hill is clerk of board.

N. C., South Mills.—Voted: \$10,000 of school-building bonds.

N. C., Spencer.—May 6 an election is to be held to vote on \$50,000 of water and light and \$10,000 of school-building bonds.

N. C., Statesville.—Bids will be received until 11 A. M. April 7 for \$125,000 of 5 per cent. 30-year Iredell county road-improvement bonds; denomination \$1000; dated May 1, 1913; maturity May 1, 1943. M. A. Felmster is chairman Board of County Commissioners. J. E. Boyd is clerk.

N. C., Spring Hope.—W. R. Griffin, chairman of Road Supervisors, will, it is reported, receive bids until May 2 for \$50,000 of bonds.

N. C., Washington.—It is proposed to hold an election in Beaufort county to vote on road-improvement bonds.

N. C., Wilmington.—May 27 an election is to be held in New Hanover county to vote on \$175,000 of school and \$100,000 of road bonds.

N. C., Wilson.—April 29 an election is to be held in the town of Tolson, Wilson county, to vote on \$10,000 of water and sewer bonds. W. A. Lucas is chairman Board of Elections of Wilson county.

N. C., Youngsville.—A. J. Hood & Co., Detroit, Mich., has purchased at \$632 premium \$15,000 of 6 per cent. Youngsville township road-improvement bonds; denomination \$1000; dated April 1, 1913; maturity April 1, 1963. C. C. Winston is secretary.

Okla., Armstrong.—Voted: \$85,000 of 6 per cent. 20-year water and sewer extension bonds.

Okla., Durant.—Voted March 18: \$72,000 of sewer and \$13,000 of water-extension 6 per cent. 20-year bonds.

Okla., Guthrie.—A bill has been introduced in the House asking that an election be called to vote on \$2,500,000 of bonds to build State Capitol.

Okla., Tahlequah.—R. J. Edwards & Co., Oklahoma City, purchased at par and 1 per cent. \$55,000 of 5½ per cent. 20-year bonds, Cherokee county, voted March 18, 1913; denomination \$500. Of the issue \$40,000 are to purchase county courthouse and \$15,000 to remodel same. John W. Sutton is chairman of County Commissioners.

S. C., Lamar.—All bids received March 19 for the \$7000 of 20-year bonds for purchase of right of way of South Carolina & Western Railway were rejected; denomination \$100; interest not to exceed 6 per cent. Address W. J. Juye, Clerk.

S. C., Little Mountain.—April 8 an election is to be held to vote on \$2000 of 6 per cent. bonds of Little Mountain School District No. 20, Newberry county; J. B. Derrick, W. A. Counts and A. N. Boland, Board of School Trustees.

S. C., McColl.—Voted: \$30,000 of water-works, \$20,000 of sewer and \$100,000 of electric-light bonds. J. R. Bivens is Mayor.

S. C., Orangeburg.—The election to vote on \$60,000 of water and light plant bonds will be held April 29. W. L. Izlar is Clerk.

S. C., Spartanburg.—An election is to be called to vote on \$100,000 of street and sidewalk improvement bonds.

S. C., White Stone.—Cook, Holtz & Co., Chicago, Ill., have purchased at \$5017 and accruing interest \$5000 of 6 per cent. 10-20-year school-building bonds of White Stone School District, voted July 20, 1912; denomination \$500; dated September 1, 1912.

Tenn., Clarksville.—Seasongood & Mayer of Cincinnati, O., have purchased \$72,500 of Montgomery county road bonds at a premium of \$225.

Tenn., Cleveland.—City proposes to issue \$75,000 of sewerage bonds.

Tenn., Knoxville.—Bids were opened on March 27 for \$24,000 of 5 per cent. Knox

county school bonds, that of Stacy & Braun of Cincinnati being the highest; decision will not be made until April 8. John W. Drummond is County Judge.

Tenn., Lenoir City.—The J. B. McCrary Company, Atlanta, has been awarded \$40,000 of 6 per cent. 30-year municipal water plant construction bonds at 106.275.

Tenn., Memphis.—Bids will be received until June 15 by O. N. Killough, president Levee Board, for \$1,500,000 of 5½ per cent. 50-year levee district bonds, dated July 1, 1913.

Tenn., Memphis.—Shelby county is authorized by the Legislature to issue \$325,000 of jail bonds.

Tenn., Park City, P. O. Knoxville.—The Council will soon ask bids for \$18,000 of bonds, \$8000 to meet outstanding indebtedness and \$10,000 for sewers and drains.

Tex., Austin.—The Attorney-General has approved the following securities: \$9500 of 5 per cent. 10-40-year Indian Gap independent school district bonds; \$40,000 of 5 per cent. 5-40-year Athens independent school district bonds.

Tex., Bay City.—Chicago parties are reported to have purchased \$100,000 of 5 per cent. 40-year bonds of road district No. 1, Matagorda county.

Tex., Bishop.—Road District No. 1, Nueces county, has voted \$100,000 of road-improvement bonds.

Tex., Boerne.—The election March 15 to vote on \$20,000 of bonds for road purposes in Commissioners' Precinct No. 1, Kendall county, was defeated. Another election will probably be held in three or four months. J. Reinhard is County Clerk.

Tex., Corsicana.—Corsicana District has voted \$100,000 of road bonds.

Tex., Carrizo Springs.—It is stated that the \$6000 of 5 per cent. 20-40-year street bonds are still being offered. A. J. Johnson is City Clerk.

Tex., Crystal City.—W. B. Guillard, Mayor, will receive bids until 10 A. M. April 7 for \$15,500 of 6 per cent. 10-40-year water-works bonds.

Tex., Decatur.—The Legislature has passed a bill authorizing the issuing of \$20,000 of bonds of Decatur Independent School District.

Tex., Dickinson.—Voted: \$15,000 of school bonds.

Tex., Eagle Lake.—Defeated: \$100,000 of road bonds of Road District No. 1, Colorado county.

Tex., Galveston.—An ordinance is reported passed authorizing the sale of \$275,000 of 4½ per cent. city hall bonds; denomination \$1000.

Tex., Harlandale, P. O. San Antonio.—Reported voted: \$23,000 of 5 per cent. 20-40-year bonds of Harlandale School District No. 40; denomination \$1000.

Tex., Hartley.—School District No. 1, Hartley county, has voted bonds for new school building.

Tex., Kyle.—Commissioners of Hays county have ordered an election April 11 to vote on \$100,000 of road bonds.

Tex., Kopperl.—Reported voted: \$7500 of school-building bonds.

Tex., Livingston.—April 26 an election is to be held to vote on \$200,000 of road bonds for justice precinct No. 1, Polk county.

Tex., Midfield.—A road district is being formed in the vicinity of Midfield and bonds to the amount of \$60,000 will be voted on at an election to be held April 19. For further information address Midfield State Bank, W. B. Gaumer, president.

Tex., Orange.—The \$20,000 of street-improvement bonds voted March 4 have been approved, and it is stated arrangements will be made at once to place them on the market.

Tex., Palestine.—E. V. Swift, Judge of Anderson county, received bids until noon April 2 for \$150,000 of road bonds.

Tex., Palestine.—A petition is reported being circulated calling for election to vote on \$50,000 of hospital construction bonds.

Tex., Texarkana.—An election will probably be held in the near future to vote on \$250,000 of street and city improvement bonds.

Tex., Wichita Falls.—A. J. Hood & Co. of Detroit are reported to have been awarded \$50,000 of 5 per cent. 40-year school district bonds at 100.21 and interest.

Va., Highland Park, Richmond.—An election is to be called to vote on \$50,000 of bonds for general improvements. R. Carter Scott is Judge of the Circuit Court of Henrico county.

Va., Matoaca.—\$17,000 of school district bonds have been voted.

Va., Norfolk.—The Seventh Ward Local

Board has asked the City Council to issue \$30,000 of school bonds.

Va., Richmond.—Baker, Watts & Co., Baltimore, have been awarded \$100,000 of 4 per cent. municipal improvement bonds. Address Finance Committee.

Va., Salem.—Roanoke county is reported considering the question of issuing \$250,000 of road-improvement bonds.

W. Va., Bluefield.—An ordinance has been prepared providing for an election in May to vote on \$25,000 of sewer bonds.

W. Va., Charleston.—Bids will be received until 8 P. M. April 8 for \$300,000 of 5 per cent. 25-34-year Charleston Independent School District high-school building bonds; denomination \$1000; dated January 1, 1913. W. O. Daum is secretary Board of Education.

W. Va., Martinsburg.—The Legislature has passed an act authorizing the city to hold an election to vote on street and sewerage bonds. W. E. Harmon is Mayor.

W. Va., Moundsville.—All bids received March 25 for the \$50,000 of 5 per cent. Union District, Marshall county, road bonds were rejected. It is said new bids will be received until April 10.

## FINANCIAL NOTES.

The Alabama Bankers' convention will be held at Dothan May 8-10.

The Georgia Bankers' convention will be held at Macon May 16-17.

The Association of Reserve Bankers will meet at St. Louis April 26.

The Louisiana Bankers' Association will meet at Alexandria April 17-18.

The Arkansas Bankers' convention will be held at Little Rock April 23-24.

The North Carolina Bankers' Association will meet at Asheville July 8-10.

The Mississippi Bankers' Association will meet at West Point May 20 and 21.

The Virginia Bankers' convention will be held at Old Point Comfort June 19-21.

The American Institute of Banking will meet at Richmond, Va., September 17-19.

The Florida Bankers' Association will hold its annual meeting at Jacksonville April 24-25.

The South Carolina Bankers' convention will be held at Lake Tuxaway, N. C., July 10-12.

The Merchants' Bank & Trust Co. of Tuscaloosa, Ala., proposes to increase its capital from \$175,000 to \$250,000.

The First State Bank of Eustis, Fla., is now doing business in its new banking quarters in the McClelland Building.

The remodeled building of the Western National Bank of Baltimore, Md., was open for inspection March 27. C. E. Elemen is president.

The American Surety & Casualty Co. of Houston, Tex., it is reported, is to be consolidated with the Continental Trust Co. of that city.

The Commercial Trust and Savings Bank, Memphis, Tenn., has made application to amend its charter in order to increase its capital from \$250,000 to \$500,000.

The Union Bank & Trust Co. of Jackson, Tenn., has transferred its demand deposits to the Security National Bank in order to retire from the commercial banking field and enter with enlarged capital and surplus into trust banking.

The third annual report of the Bank Commissioner of Maryland, showing the condition of State banks, trust companies and savings institutions for the period ending February 1, 1913, has been issued. A condensed statement covers 118 banks and trust companies (including nine branches) as of November 26, 1912, and 20 savings institutions as of December 31, 1912, as follows: Loans and discounts, \$48,298,821; due from banks, bankers and trust companies, \$2,176,071; due from approved reserve agents, \$11,301,097; cash on hand, \$4,865,568; capital stock paid in, \$13,298,894; surplus fund, \$18,167,571; undivided profits, \$7,906,023; due to banks, bankers and trust companies, \$2,881,817; due to approved reserve agents, \$236,414; demand deposits, \$52,063,219; time deposits, \$118,947,056; total resources, \$214,414,815.

## MODEL HARBOR DEVELOPMENT.

### Plans for Utility and Beauty at Three Florida Ports.

Mr. Henry C. Long of Boston, Mass., a student of port development who has recently been in Florida in consultation over plans for harbor development at

Tampa, St. Petersburg and Sarasota, says that the plans for St. Petersburg and Tampa are unique, and he adds:

"In each case the Government requires equal access to the ports for all railroads. This requires a municipal railway or harbor belt line. One was laid out in each city.

"Another thing, the area was very much restricted in size, and hence, in order to make the ports along large lines, so that they would answer for practically all the future as well as the present, it was necessary to put in diagonal piers and slips. This has not been done elsewhere in America, but is very common in Europe. There is nothing like either of them in the world, except the new port at Panama, laid out by Colonel Goethals and his engineers. He has a 2000-foot channel to work on, however, and inclines his piers at 70 degrees. I had 600 feet at Tampa and 500 feet at St. Petersburg, and hence had to make sharper angles, but when you see the plans you will also see how magnificently ships can get in and out, and also what long, fine curves the railroads have to use in getting their trains in and out from the piers. These ports will set new standards for American construction, and will cause a great many ports to be built in restricted areas where most men would think large piers impossible.

"Another thing which is necessary to take into consideration in both Tampa and St. Petersburg, as well as in Sarasota, and a little southward from these ports, is that they are all great winter resorts, and it is very essential that all of the water-front work be treated esthetically as well as commercially and economically. This has been done in both cases, and in both cases the entrances can be made as beautiful and esthetic as the grand canal of Venice, and, in fact, I do not hesitate to say that I believe when St. Petersburg's port is built that it will have the most beautiful water front in the world unless it be Rio Janeiro, Brazil. I guess we will have to take our hats off to Rio Janeiro, but outside of it, St. Petersburg will stand at the head.

"At Tampa they have a wonderful opportunity, because if they buy the land in which this new harbor will be constructed, and which is in course of construction, they will be unable to sell off enough land for factory sites and lease enough to produce an income and funds sufficient to pay off the bonds at their maturity, which is necessary to buy and construct their harbor, leaving their great harbor, 8½ miles of water front, to cost them nothing for all the future time.

"There is no port in the whole South that cannot by proper treatment be made to do business at from one-third to one-half less money than they now do it by proper arrangement of their terminal facilities, and I don't believe there is one where all the improvement cannot be done so as to be an ornament to the city as well as a commercial asset, and where all that is ugly and unsightly cannot be replaced by that which is beautiful and esthetic.

"I have given this matter of the industrial and commercial development of cities and ports a great deal of study throughout the world for many years, and I took it up actively to actually do the work because so far as I know no other man in America or Europe has ever undertaken this kind of work, the reason being that practically all the great port and city developments have occurred in the last 25 years, so that the scientific, commercial, industrial and esthetic development of cities is a new subject entirely upon which there is not an essay or book writ-

ten in the world. I wish I had time to write such a book, but since I have not, I am glad to help out any city in America who would need such service."

Mr. Long is earnestly favoring direct steamship service between Boston and Tampa as a means of aiding in the development of Florida and of reducing the cost of living in Boston.

#### To Reclaim 37,750 Acres.

The Jefferson and Plaquemine Drainage District, which has issued bonds for \$358,500, contains 37,750 acres opposite New Orleans, and George A. Hero, president of the district, sends the MANUFACTURERS RECORD a statement by J. F. Coleman, who is consulting engineer for the district, as follows:

"It is doubtful if it would be possible to find in any other location a more desirable area for reclamation and drainage

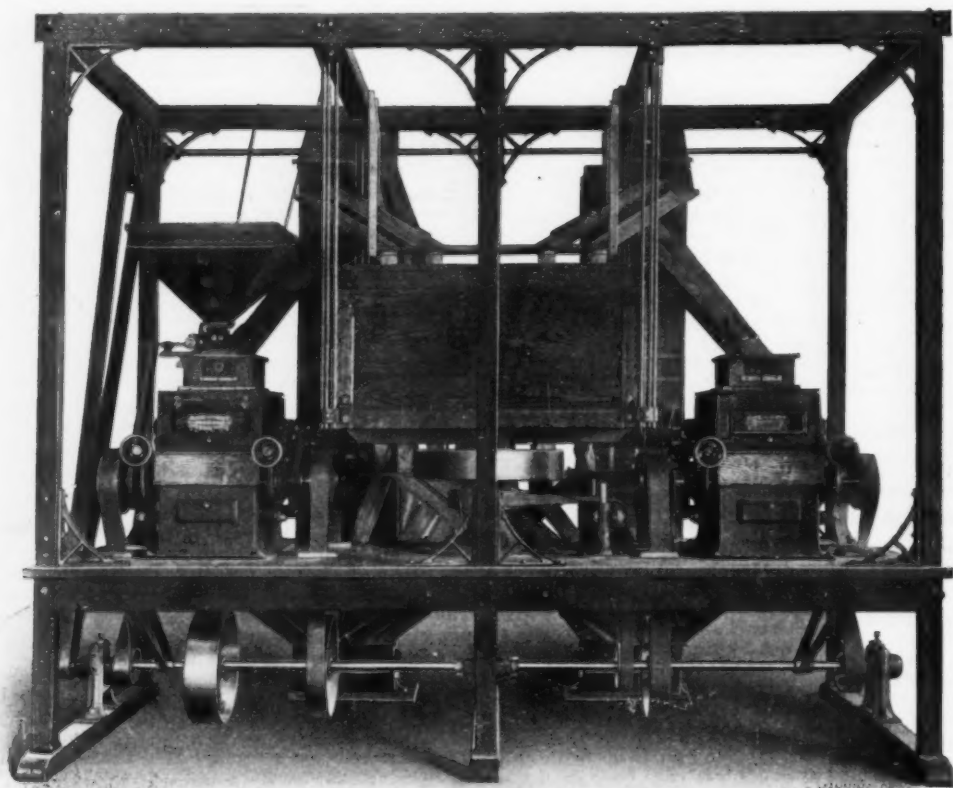
than that covered by the Jefferson and Plaquemine Drainage District. The construction of a levee about 12 miles long, which will run from the Mississippi River at Harvey Canal to the Mississippi River at the lower line of Cedar Grove plantation, will complete the enclosure of 37,700 acres with levees. Within this area are existing bayous and old canals which are so located as to practically serve all needs for drainage excepting that it will be necessary to enlarge them to such proportions as will enable them to deliver the rainfall to the pumping station. The pumping station, which is to be the largest yet constructed in the world, is to be located at the intersection of Harvey's Canal with Bayou Barataria. The contract for the pumping machinery for this plant has already been let to A. Baldwin & Co., Ltd. It is to have an ultimate capacity of nearly 900,000,000 gallons in 24

hours. There are to be four pumps with capacity of 192,000,000 gallons each in 24 hours, and two pumps with capacity of 64,000,000 gallons each in 24 hours. No pumps of 192,000,000 gallons capacity in 24 hours have hitherto been constructed, and the plant when completed will without doubt be a most interesting place to visit. Excavation on one of the smaller canals of the system will be started within a few days, and contracts for all of the dredge and levee work will be let within the next 30 years, so that in a brief period of time there should be a lively activity in this drainage district. The engineering work is under my charge as consulting engineer. I have retained Walter Castaneda as associate engineer for mechanical engineering details.

"When the work of reclamation and drainage of this district is completed, New Orleans will have at her doors and par-

tially within her own limits a broad expanse of as rich land as the world affords. The farthest boundaries of the district will be within eight miles of Canal street, and with properly constructed highways, such as are proposed, the question of transportation of the product of the land to the markets will be easy to solve. It will be easily possible for the inhabitants of this new territory to have all the pleasures and comforts of city life and yet to actually reside in the country. It would be difficult to imagine any era more favorably located, and it would seem a certainty that when opened up and drained it will immediately be populated and developed agriculturally."

Walter K. Sumner, formerly secretary of the Michigan Manufacturers' Association, has been elected secretary of the Chamber of Commerce of Union, S. C.



## Getting Profits from Dull Seasons

A LIVE TOPIC OF INTEREST TO EVERY MANUFACTURER

*How can I make my business produce greater profits during dull seasons?* has been a subject of discussion for manufacturers of various kinds of commodities since almost as far back as the birth of Commerce itself.

Such discussions were of good intent, no doubt; but so far as benefits were concerned—well, in about ninety-nine cases out of every hundred just so much wind was wasted.

The average manufacturer never looks beyond the horizon of his own particular business. He imagines himself so busy with his own affairs that the other fellows' do not interest him.

And right there, if he persists in sticking to that idea, is the reason why his business is forever doomed to dull seasons.

The amount of business in many lines of commerce fluctuates like the mercury in a thermometer. It runs to seasons; and, in the cases we have reference to, seasons are the natural governors of demand.

It would hardly be natural if the demand for mosquito netting were to run at highest speed in January, would it? Nor do people spend their money for all-wool, twelve-dollar blankets in the month of July. That's against the natural law of things.

So the logical solution to the dull season problem is—two businesses linked together.

Now, let's determine how the "linking" process can best be accomplished.

Take flour, for example. It is a staple commodity—an article of every-day demand.

People will eat just as many

loaves of bread, just as many flap-jacks and just as many pop-overs in one month as in another, regardless of the weather or the seasons. These things are the every-day necessities of life; and every one of them and a hundred others are made from flour.

Therefore, flour is a commodity of perpetual demand, and the men who make it know no dull seasons.

Now, the final solution has been sifted down to simply this: If any manufacturer the sale of whose products is governed by seasonal demand will add a staple article of every-day consumption to his regular line of business, the dull seasons will be chased away forever, and a better showing will be made on the profit side of the ledger.

And there is no article of more constant demand than flour.

### Wolf Self-Contained Portable Mill

Any manufacturer who now believes in the need of an adjunct to his regular business will find the Wolf Self-Contained Portable Mill most admirably suited to his requirements.

It requires but very little room, costs almost nothing to operate, and makes wheat, rye and buckwheat flour or cornmeal of a trade-winning "come again" quality.

Built in twelve different sizes, ranging in capacity from 15 to 35 barrels per day.

#### Send for Descriptive Bulletin

*Inquisitiveness—the I-want-to-know habit—is one of the best traits mortal man can have. Do you want to know how the Wolf Self-Contained Portable Mill can carry you successfully through the dull seasons?*

**THE WOLF COMPANY, Chambersburg, Pa.**



